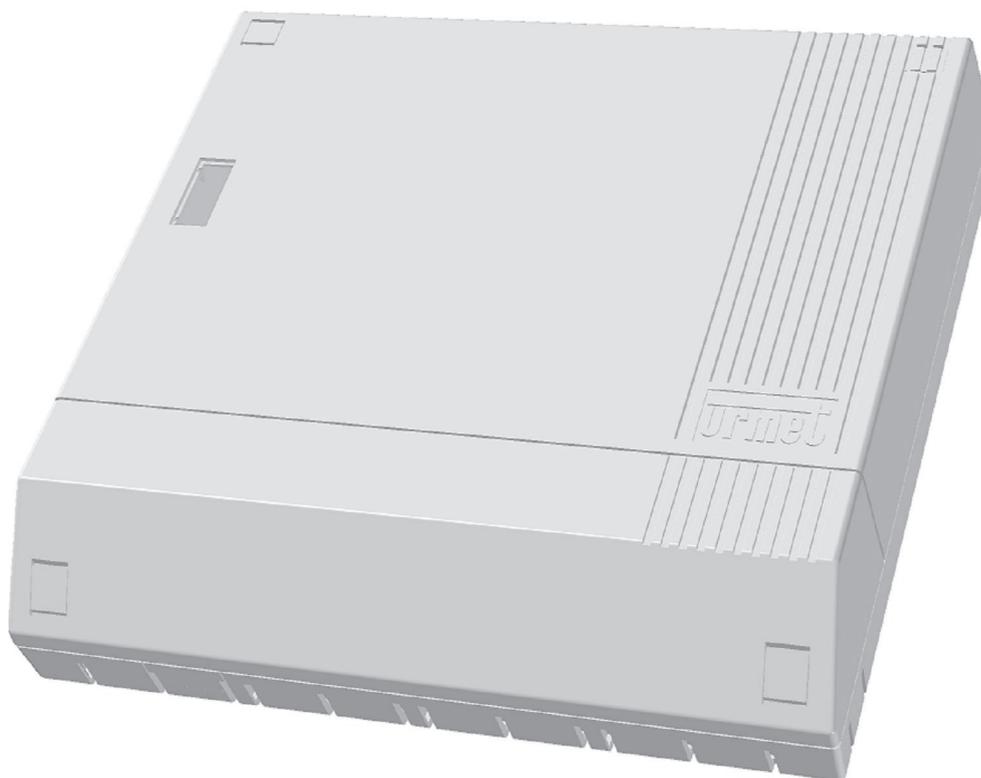


AGORA 2 PABX SWITCHBOARD**Ref. 1372/312**

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1 AGORÀ 2 SWITCHBOARD

The automatic AGORÀ 2 switchboard Ref. 1372/312 can be connected to up to 12 telephones for intercom functions and connecting to external telephone lines. The telephones connected to the switchboard following calls from a door unit turn into normal door phones allowing a call to be established with the door unit and the door lock to be released.

Up to eight calls can be established at the same time: four intercom calls, one door phone call and three external telephone line calls.

The switchboard is provided with a 100 number directory in common to all extensions (each number can be up to 26 digits long). The memory settings may contain extension numbers, external telephone numbers and numbers for services such as door opener relays and actuators.

The switchboard is provided with voice synthesiser functions for programming help and channelling DISA and on-hold messages to external lines. The devices can be programmed to access the various services either by telephone or using SCAITERM2NET software running on a PC connected to the RS232 or USB interface of the PABX; alternatively, via IrDA using a specific application for PDA. Programming via SCAITERM2NET is recommended because the system is easier to use and because the settings may be stored in a backup file for global restoring.

The Agorà 2 switchboard is an expandable system: all boards can be fitted on a rack and present the following modularity:

1. PSTN analogue local line board	Ref. 1372/2	(up to 3 boards can be fitted)
2. Extension 1 board	Ref. 1372/3	(up to 12 boards can be fitted)
3. USB/RS232 interface board	Ref. 1372/50	
4. Digivoice door phone interface board	Ref. 1372/53	
5. Bibus door phone interface board	Ref. 1372/54	
6. 1+N door phone interface board	Ref. 1372/55	
7. 4+N door phone interface board	Ref. 1372/56	
8. ADSL filter board (Line 3)	Ref. 1372/57	
9. IrDA interface board	Ref. 1372/58	
10. Answering board	Ref. 1372/59	

Switchboard capabilities include:

- Connection to three PSTN telephone lines
- Connection to door unit
- Answering telephone calls
- Answering door phone calls from the door unit (three calls)
- Intercom service
- Caller Identifier for internal calling
- Automatic routing Domus Cell
- Relay activation on CLI base
- Call privacy
- Conversation on-hold
- Divert with and without announcement
- General directory (100 stored numbers)
- Opening of three electrical locks (with 4+N door phone board)
- Operation of auxiliary service commands (different according to the operation door phone board used)
- DISA DDI
- On-hold music and DISA message recordable by user or by PC (wav and mp3 format, max 15 seconds)
- "Hot-Line" function
- Call-back service
- Extension and bridge function
- Connection via switchboard (DOSA)
- Alarm service
- PC LED panel service
- Paging connection
- Fax recognition
- Connection to PC via serial port or USB (Ref. 1372/50)
- Connection to PDA via IrDA (Ref. 1372/58)
- Remote programming
- Local and remote room monitor
- Black list
- Divert and "bridge" function with programmable timing
- Automatic and manual Day/Night function
- DISA Jolly function
- Managing of 2 different protocols for extensions
- Modem link (ADSL or DIAL UP 56K) on terminal blocks MODEM
- Use of answering board, programmable with several messages.

The switchboard is marked 

Urmet reserves the right to change the product specifications and performance without prior notice.

2 CONFIGURATION

2.1 DEVICE TYPES

The AGORÀ 2 switchboard may run with the following types of devices:

- BCA keyboard telephones (DTMF) or equivalent type-approved terminals (fax, answering machine, etc.).
- Urmet door phones.
- DIRECTOR2 telephones (Top and CL), max 8 or
- Telephones with LED panels (Team CL, Euro CL Studio CL), max 8.

Urmet door phones make door phone functions easy by using dedicated buttons: for example, the door can be opened simply by pressing a button.

“DIRECTOR2” telephones make simpler the use of the system, having dedicated buttons for telephone and doorphone functions and for the monitoring of the system.

2.2 DOOR PHONE SYSTEM TYPES

The AGORÀ 2 switchboard may be used with the following types of systems:

- 4+N
- 1+N
- Bibus
- Digivoice

It cannot be connected to the following systems:

- Doorphone system 4+N with conversation secret.
- Door phone systems with concierge switchboard Mod. 604

2.3 POWER SUPPLY

The switchboard must be powered at 230V via a 2-pole master switch.

3 INTENDED USE OF THE DEVICE

This device was designed for use in connection to a national analogue PSTN.

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1 TELEPHONE CAPABILITIES ON EXTERNAL LINES

The switchboard can only be used in tone (MF).

1.1 CALL ON EXTERNAL LINE

To make a call on an external line:

1. Pick up the handset and wait for the dial tone.
2. Select the line to be used for the call by dialling
 - 80** for any available private line
 - 0** for any available line
 - 81 ÷ 83** for line 1 ÷ 3
3. Wait and proceed as follows according to the reply.
 - 4a. If you hear the dialling tone, dial the number to be called within 10 seconds.
 - 4b. If you hear a deterrent tone, it means that the extension is not authorised to external calls. Hang up.
 - 4c. If you hear the message "*Line not available*", it means all lines are busy. Hang up or book an external line.

1.1.1 DOMUS CELL GSM INTERFACE AUTOMATIC ROUTING

It is possible to route the calls to specific numbers, for example mobiles, with the Domus Cell GSM interface in order to get a more convenient telephone rate. In order to use the routing service it is necessary to install a Domus Cell interface (for available models, see the Urmet catalogue) on a PSTN line and follow the procedure below:

1. Pick up the handset and wait for the dial tone.
2. Enter **0** to seize the line
3. Wait for the answer and perform as shown below, according to the type of the answer received.
- 4a. If the dial tone is heard, enter the number to be called. The first digit must be entered within 10 seconds; if this time is elapsed, the telephone is disabled.
- 4b. If an alert tone is heard, it means that the extension line is not enabled to external calls. Hang up the handset.
- 4c. If is heard the message "*Line not available*", it means that there are no free lines. Hang up the handset or make a trunk line reservation.

The calls starting with the programmed code are automatically routed on the line where the Domus Cell is active; for example, if on the PABX are connected two lines and on the second one is installed and enabled a Domus Cell with the code 3, when a mobile number is entered, the call is sent on the line 2.

It is also possible (with a specific programming procedure) to forward via the PSTN line the calls that should be forwarded via the GSM interface, if this line is already busy; similarly it is possible to allow the forwarding of the calls directed to residential numbers via the GSM interface.

1.2 CALLING A NUMBER FROM THE DIRECTORY

Calls can be made to a number stored in the directory identified by a short code from an extension. Each extension can access a directory of 100 numbers in common to all extensions. The short codes consist of three digits from 000 to 099.

To call a number stored in the directory on a local line:

1. Pick up the handset and wait for the dial tone.
2. Dial **39** followed by the short code **000 ÷ 099** identifying the telephone number to be called.
3. Wait for the switchboard to make the required call and proceed as follows:
 - 4a. A conversation will be established if the call procedure is successful.
 - 4b. If you hear the message "*Settings from 000 to 099 are empty*", it means that there are no numbers in the directory associated to the entered code. Hang up.
 - 4c. If you hear the message "*Line not available*", it means all lines are busy. Hang up or book an external line.

1.3 BOOKING A LOCAL LINE

A local line can be booked if the line you want or all lines are engaged, that is when you hear the "*Line not available*" message when calling an external line.

When the line is freed, the telephone which made the booking will ring for 25 seconds.

To book a local line after hearing the "Line not available" message:

1. Dial **R30** and wait for the confirmation tone.
2. Hang up.
3. The telephone will ring when the line becomes available.
4. Pick up the handset and wait for the dial tone.
5. Dial the number to call. The first digit must be entered within 10 seconds after which the telephone is cut off.

When you hear the dial tone (step 4), the line is engaged and direct dialling only is possible. You cannot call a number stored in the directory using a short code following a booking.

1.4 ANSWERING AN EXTERNAL CALL

Calls from external lines will make all extensions enabled to received incoming calls ring according to the external call tone.

The call can be picked up also from a telephone which is not enabled to receive incoming calls. This telephone will not ring unless the "pick-up" function is programmed.

All telephones will stop ringing when the call is picked up.

To answer from an enabled telephone:

1. Pick up the handset.

To answer from a non-enabled telephone:

1. Pick up the handset and wait for the dial tone.
2. Dial **38**.
3. For Director2 telephones, add the number of line or press the respective button.

1.5 ENCAPSULATION

The switchboard will cut the telephone off after 10 seconds and a deterrent tone will be heard if no operations are performed after picking up the handset, if the handset is not hung up after a conversation or if an incorrect or unauthorised operation is attempted. Hang up the handset to reactivate the telephone.

1.6 PUTTING AN EXTERNAL CALL ON-HOLD

An external call may be put on-hold without shutting down the connection and resumed at a later time from the same telephone.

To put an external call on-hold, dial **R** and wait for the dial tone. The external user will hear the on-hold music and announcement.

To resume the conversation, dial **R**.

A return call from the line will be heard for up to 50 seconds if the handset is hung up while a call is on-hold, after which the call will be dropped.

1.7 PUTTING AN EXTERNAL CALL ON-HOLD TO ANSWER ANOTHER EXTERNAL CALL

The first call can be put on-hold and the second call answered if a second telephone call is received during an external conversation (indicated by a warning tone). You can also switch between conversations, i.e. speak with one caller and keep the other caller on-hold.

To put an external conversation on-hold and answer a second external incoming call:

1. Dial **R** and wait for the dial tone. The external user will hear the on-hold music and announcement.
2. Dial **9**. This will switch the conversation to the other external call.

To switch from one conversation to the other, dial **R9**.

To end the active conversation and pick up the one on-hold, dial **RR** or hang up the handset: the local line will be freed and the local line on-hold will call back.

1.8 PUTTING AN EXTERNAL CALL ON-HOLD TO MAKE ANOTHER EXTERNAL CALL

You can put an external conversation on-hold and make a second external call. You can also switch between conversations, i.e. speak with one caller and keep the other caller on-hold.

To put an external conversation on-hold and make a second external call:

1. Dial **R** and wait for the dial tone. The external user will hear the on-hold music and announcement.
2. Select the line to be used for the call by dialling:
 - 80** for any available private line
 - 0** for any available line
 - 81 ÷ 83** for line 1 ÷ 3
3. Wait and proceed as follows according to the reply.
 - 4a. Dial the number to be called when you hear the dial tone. The first digit must be entered within 10 seconds after which the telephone will be encapsulated and the line on-hold will call back.
 - 4b. If you hear a deterrent tone, it means that the extension is not authorised to external calls. Hang up. The line on-hold will call back.
 - 4c. If you hear the message "Line not available", it means all lines are busy. Hang up. The line on-hold will call back.

To switch from one conversation to the other, dial **R9**.

To end the active conversation and pick up the one on-hold, dial **RR** or hang up the handset: the local line will be freed and the local line on-hold will call back.

1.9 PUTTING AN EXTERNAL CALL ON-HOLD TO MAKE ANOTHER INTERNAL CALL

You can put an external conversation on-hold and make a second internal call.

To make an internal call while an external conversation is in progress:

1. Dial **R** and wait for the dial tone. The external user will hear the on-hold music and announcement.
2. Dial the number to call: **41 ÷ 52** for extensions 1 ÷ 12.

To switch from one conversation to the other, dial **R9**.

To end the active conversation and pick up the one on-hold, dial **RR**.

Hang up the handset while the call is in progress: the extension on-hold will call back.

Hang-up the handset while the internal call is in progress to establish a conversation between the external line and the extension.

1.10 PARKING AN EXTERNAL CALL

The parking function can be used to put a conversation in progress on-hold and pick it up from any other extension.

To put an external conversation on-hold:

1. Dial **R** and wait for the dial tone.
2. Dial **31** and wait for the confirmation message "Service active on line XX". The external user will hear the on-hold music and announcement.
3. Hang up.

To pick up a parked call:

1. Pick up the handset and wait for the dial tone.
2. Dial **31** followed by the parked line number.
81 ÷ 83 for line 1 ÷ 3

When parked, all telephones can be hang up. The call must be resumed within 90 seconds (programmable time) otherwise the parked call will call back.

1.11 DIVERT WITH NOTICE OF AN EXTERNAL CALL

The divert with notice function is used to forward a call from on telephone to another asking the whether to accept the call or not.

To divert a call with notice:

1. Dial **R**, and wait for the dial tone. The external user will hear the on-hold music and announcement.
2. Dial the number of the extension where to divert the call (41 ÷ 52).
3. Wait for reply and proceed as follows accordingly.
 - 4a. If the extension replies and accepts the call, hang up to immediately establish conversation with the external user.
 - 4b. If the extension does not reply or rejects the call and hangs up, dial **R** to resume conversation with the user.
 - 4c. If the extension is ringing but does not reply or if it is engaged, dial **RR** to resume the conversation with the external user.

1.12 DIVERT WITHOUT NOTICE OF AN EXTERNAL CALL

The divert without notice function is used to forward a call from on telephone to another without asking the whether to accept the call or not.

To divert a call without notice:

1. Dial **R** and wait for the dial tone. The external user will hear the on-hold music and announcement.
2. Dial the number of the extension where to divert the call and hang up (41 ÷ 52).

One of the following cases may occur:

- The extension rings, receives the external call signal and picks up. Connection to the local line on-hold is established.
- The extension rings, receives the external call signal and does not pick up. The call rings back to the telephone from where it was forwarded after 50 seconds.
- The extension is busy, receives the warning tone and hangs up. The local call signal is then received and picks up. Connection to the local line on-hold is established.
- The extension is busy, receives the warning tone and hangs up. The local call signal is then received and does not pick up. The call rings back to the telephone from where it was forwarded after 50 seconds.
- The extension is busy, receives the warning tone and does not hang up. The call rings back to the telephone from where it was forwarded after 50 seconds.
- Call back will be immediate if the warning tone is off.

In other words, if the call divert is not successful, the system will call the extension which originated the diversion back for 25 seconds after which the call is dropped.

1.13 DIVERTING A SECOND EXTERNAL CALL

An external call in progress may be diverted after button a first external call on-hold.

To divert the second conversation:

1. Dial **R** and wait for the dial tone. The external user will hear the on-hold music and announcement.
2. Dial the number of the extension where to divert the call (41 ÷ 52).

One of the following cases may occur:

- The caller hangs up without waiting for reply (divert without notice). The first line on-hold will call back.
- The caller waits for reply (divert with notice) and the called party accepts. The caller hangs up and the first line on-hold calls back.
- The caller waits for reply (divert with notice) and the called party rejects and hangs up. The caller is reconnected to the second local line previously put on-hold.

If the second conversation divert is not successful, the conversation is cancelled.

After diverting or ending the second conversation, the first external line will call back when the handset is hung up.

1.14 THREE-PARTY CONFERENCE CALL

This function is used to establish a conference call between three parties (two internal and one external or one internal and two external).

To enter a call in progress:

1. Dial **R** and wait for the dial tone.
2. Dial the number of the extension to include in the conference.

Wait for reply, inform of the intension to establish a conference call and dial **R** followed by **78**.

During the conference call all parties will hear the conference call tone: the tone will be switched off as soon as one of the extensions hangs up and therefore ends the conference call.

1.15 DISA EXTERNAL CALL TIMED DIVERT TO OTHER EXTENSION

This function is used to divert external calls to your extension after five rings (DISA function must be enabled). A “divert” tone will be heard when the function is active when you pick up the handset. The telephone can be used to make calls in any case.

To switch the function on:

1. Pick up the handset and wait for the dial tone.
2. Dial **325 N** and wait for the confirmation message, where:
N = number of the extension where to divert calls **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To switch the function off:

1. Pick up the handset and wait for the dial tone.
2. Dial **325 N** and wait for the confirmation message, where:
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To check the function:

1. Pick up the handset and wait for the dial tone.
2. Dial **32540** and wait for the confirmation message.
3. Hang up.

1.16 FOLLOW-ME

This function is used to immediately divert external calls to your extension after five rings (DISA function must be enabled). A “divert” tone will be heard when the function is active when you pick up the handset. The telephone can be used to make calls in any case. This function can be activated from the extension to which the calls will be diverted.

To switch the function on from the extension to which calls will be diverted:

1. Pick up the handset and wait for the dial tone.
2. Dial **#627 N** and wait for the confirmation message, where:
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To switch the function off from your extension:

1. Pick up the handset and wait for the divert tone indicating that the service is on.
2. Dial **#627 N** and wait for the confirmation message.
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To check the function off from your extension:

1. Pick up the handset and wait for the dial tone.
2. Dial **#62740** and wait for the confirmation message.
3. Hang up.

1.17 DISA EXTERNAL CALL IMMEDIATE DIVERT TO OTHER EXTENSION

This function is used to immediately divert external calls to your extension after five rings (DISA function must be enabled) activating Director/Secretary function. A “divert” tone will be heard when the function is active when you pick up the handset. The telephone can be used to make calls in any case.

To switch the function on:

1. Pick up the handset and wait for the dial tone.
2. Dial **326 N** and wait for the confirmation message, where:
N = number of the extension where to divert calls **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To switch the function off:

1. Pick up the handset and wait for the divert tone indicating that the service is on.
2. Dial **326 N** and wait for the confirmation message.
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To check the function:

1. Pick up the handset and wait for the dial tone.
2. Dial **32640** and wait for the confirmation message.
3. Hang up.

1.18 DIRECTOR/SECRETARY FUNCTION

An extension (called "Director") which has activated the immediate divert function to another extension (called "Secretary") will not ring for any call (external, internal, door phone). This telephone will only receive calls diverted from the "Secretary" extension to which the calls are diverted.

Example:

Extension 41 "Director" activates immediate divert to extension 42 "Secretary".

"Secretary" is the only extension which may receive calls addressed to "Director" and divert them, with or without notice.

1.19 DISA EXTERNAL CALL DIVERT ON BUSY TO OTHER EXTENSION

This function is used to divert external calls to your extension when this is busy (DISA function must be enabled). A "divert" tone will be heard when the function is active when you pick up the handset. The telephone can be used to make calls in any case.

To switch the function on:

1. Pick up the handset and wait for the dial tone.
2. Dial **327 N** and wait for the confirmation message, where:
N = number of the extension where to divert calls **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To switch the function off:

1. Pick up the handset and wait for the divert tone indicating that the service is on.
2. Dial **327 N** and wait for the confirmation message.
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To check the function:

1. Pick up the handset and wait for the dial tone.
2. Dial **32740** and wait for the confirmation message.
3. Hang up.

1.20 MANUAL DIVERT TO EXTERNAL LINE (Bridge Function)

This function allows the extension to establish a communication between two external lines for either incoming or outgoing calls. The call time is programmable (see par. 11.6) and may be extended by callers by pressing any DTMF button during the last 10 seconds of conversation (indicated by a tone).

For example, to switch the function on from the extension station with one line on-hold and one active:

1. Dial **R#610** and wait for the "Function on, please hang up" message.
2. Hang up.

1.21 EXTERNAL DIVERT TO PRIVATE LINE

This function is available when an external line is configured as a private line.

It is used to immediately deviate external calls addressed to an extension towards a previously programmed external number (see par. 9.4) using another line configured as private (DISA must be enabled). The switchboard dials the programmed telephone number and connects the two lines. A specific number can be programmed for each extension. This connection time can be programmed (see par. 11.6) and can be extended by pressing any DTMF during the last 10 seconds of connection (a tone will be heard). A "divert" tone will be heard when the function is active when you pick up the handset. The telephone can be used to make calls in any case.

Press ******* to end the call.

1. Pick up the handset and wait for the dial tone.

To activate the function from any extension:

2. Dial **#671 L** and wait for the confirmation message, where:
L = 80 for any available private line
81 ÷ 83 for line 1 ÷ 3
3. Hang up.

To deactivate the function from any extension:

2. Dial **#670** and wait for the confirmation message.
3. Hang up.

To check the function from any extension:

2. Dial **#672** and wait for the "Function off" message.
3. Hang up.

The function can be activated remotely by dialling:

*** main password * # code**

The message “*incorrect command*” will be heard if you attempt to activate the function on a non-private line or without programming the number where to divert the call.

1.22 CALL DIVERT TO PRIVATE LINE

This function is available when an external line is configured as a private line.

It can be used to divert external calls not addressed to a specific extension after some ring (programmable) towards a previously programmed external number using another telephone line configured as private. The switchboard dials the programmed telephone number and connects the two lines.

This connection lasts is programmable (see par. 11.6) and can be extended by pressing any DTMF during the last 10 seconds of connection (a tone will be heard). A “divert” tone will be heard when the function is active when you pick up the handset. The telephone can be used to make calls in any case.

Press ******* to end the call.

1. Pick up the handset and wait for the dial tone.

To activate the function from any extension:

2. Dial **#661 L** and wait for the confirmation message, *where*:
L = 80 for any available private line
81 ÷ 83 for line 1 ÷ 3
3. Hang up.

To deactivate the function from any extension:

2. Dial **#660** and wait for the “Function off” message.
3. Hang up.

To check the function from any extension:

2. Dial **#662** and wait for the “Function off” message.
3. Hang up.

The function can be activated remotely by dialling:

*** main password * # code**

The message “*incorrect command*” will be heard if you attempt to activate the function on a non-private line or without programming the number where to divert the call.

1.23 GROUP CALLS

The group call function may be used to call a group of users via DISA from the outside. When a group call is received, only the extensions belonging to the group will ring. All telephones will stop ringing when the call is picked up.

To make a group call:

1. Call the switchboard and wait for the DISA message.
2. Dial **73 X**, where:
X = 1 ÷ 7 for groups 1 ÷ 7

1.24 CALL CAPTURE BY ANSWERING MACHINE, FAX OR MODEM

The call capture function is used to route an established communication to an answering machine terminal, a fax machine or a MODEM as required by the device making the request.

To activate the function:

1. Pick up the handset and wait for the dial tone.
2. Dial **# 641**.

1.25 CLASS OVERRIDE CODE

The system uses a four-digit code to temporarily import the features of your extension to another.

To make the call:

1. Pick up the handset and dial **#615** followed by secondary password ***** your extension number.
2. Dial the number to be called when you hear the tone.

Class override will still apply for 30 seconds after the call. During this time, you can make further calls without needing to repeat the sequence above.

1.26 DOOR PHONE TRUNK LINE OPERATING MODE

The PABX Agorà 2 can be connected to a 2Voice door phone system by installing a PSTN and video apartment interface for 2Voice Ref. 1083/67 connected to the interface trunk line.

If the trunk line is enabled as door phone line, the PABX will manage calls coming from the interface as door phone calls, sending to the enabled telephones the same ringing sequence as the doorbell 1. The extension line which answers the call can open the door in the same way as the other door phone systems, because all door phone commands are received and managed by the PABX, sending all the commands received on

the telephone line programmed as door phone line (see par. 4.7 “Programming the door phone code table”).

For available commands and services, see par. 4 “Door phone riser services” and par. 5 “Phone services”.

 When the telephone line is activated as door phone line, it will acquire all characteristics of doorbell 1 and all its programming / restrictions.

 Only one door phone system type (cards 4 + n, Digivoice, 1 + n, Bibus, Combiphone door units or PSTN and video apartment interface FOR 2Voice) can be connected to the PABX. If the door phone telephone line is enabled, any other card or enabled feature (telephone door unit activation) will be ignored.

2 TELEPHONE CAPABILITIES ON INTERNAL LINES

2.1 INTERNAL CALLS

To call an extension:

1. Pick up the handset and wait for the dial tone.
2. Dial the number to call: **41 ÷ 52** (for extensions 1 ÷ 12).
3. Wait for reply and proceed as follows accordingly.
- 4a. Free, i.e. the ringing tone is heard. Wait for the called number to pick up. The caller will hear a deterrent tone if the called phone is picked up and hang up again.
- 4b. Busy, i.e. the busy tone is heard. The following alternatively actions are possible: hang up, book the call, cut into the call or wait for the called user to hang up.

2.1.1 CLI SERVICE FOR CALLS BETWEEN EXTENSIONS

The CLI service for calls between extensions allows the user called by an extension to display, on a telephone provided with CLI function, the number of the calling extension.

2.2 GENERAL INTERNAL CALL

A call can be made to all extensions: all free extensions will ring except for those configured as fax/modem or answering machine. All telephones will stop ringing when the call is picked up.

To make a general internal call:

1. Pick up the handset and wait for the dial tone.
2. Dial **40** and wait for the confirmation tone. All free extensions will ring.

2.3 GROUP CALLS

All the extensions in a group can be called and all the free extensions will ring. All telephones will stop ringing when the call is picked up.

Proceed as follows to make a general internal call:

1. Pick up the handset and wait for the dial tone.
2. Dial **73 X**, where:
X = **1 ÷ 7** for groups 1 ÷ 7

2.4 BOOKING WHEN BUSY

This function is used to make a booking when an extension is busy. The caller’s telephone will ring when the called number is free.

To make the booking:

1. Dial **R30** and wait for the confirmation tone.
2. Hang up.

2.5 ANSWERING AN INTERNAL CALL

A specific ring tone is used for internal calls.

The call can be answered also from a telephone which is not enabled to receive incoming calls (this telephone will not ring). You can also answer calls directed to other extensions.

To answer from an enabled telephone:

1. Pick up the handset.

To answer a call directed to another extension or non-enabled telephone:

2. Pick up the handset and wait for the dial tone.
3. Dial **38** followed by the number of the extension which is ringing whose call you want to pick up.

2.6 PUTTING AN INTERNAL CALL ON-HOLD

An external call may be put on-hold without shutting down the connection and resumed at a later time from the same telephone.

To put an internal conversation on-hold:

1. Dial **R** and wait for the dial tone. The user will hear a on-hold tone.
Dial **R** to resume the conversation with the extension on-hold when you hear the dial tone.

2.7 PUTTING AN INTERNAL CALL ON-HOLD TO MAKE ANOTHER INTERNAL CALL

You can put an internal conversation on-hold and make a second internal call.

To put an internal conversation on-hold and make a second internal call:

1. Dial **R** and wait for the dial tone. The user on-hold will hear the on-hold tone.
2. Dial the number to call: **41 ÷ 52** for extensions 1 ÷ 12.

To switch from one conversation to the other, dial **R9**.

To end the active conversation and pick up the one on-hold, dial **RR**.

The call will be diverted to the two extensions will are still connected when the handset is hang up.

2.8 PUTTING AN INTERNAL CALL ON-HOLD TO ANSWER ANOTHER EXTERNAL CALL

The first call can be put on-hold and the second call answered if an internal call is received during an external call (indicated by a warning tone). You can also switch between conversations, i.e. speak with one caller and kept the other caller on-hold.

To put an internal conversation on-hold and answer a second external incoming call:

1. Dial **R** and wait for the dial tone. he user on-hold will hear the on-hold tone.
2. Dial **9**. This will switch the conversation to the other external call.

To switch from one conversation to the other, dial **R9**.

To end the active conversation and pick up the one on-hold, dial **RR**.

Hang up while the external call is in progress to end the external communication. The internal user on-hold will hear the call confirmation tone and the extension will ring each other back.

Hang up while the internal call is in progress to end the internal call and divert the local line to the other extension.

2.9 PUTTING AN INTERNAL CALL ON-HOLD TO MAKE AN EXTERNAL CALL

You can put an internal conversation on-hold and make an external call. You can also switch between conversations, i.e. speak with one caller and kept the other caller on-hold.

You can put an internal conversation on-hold and make an external call.

1. Dial **R** and wait for the dial tone. The user on-hold will hear the on-hold tone.
2. Select the line to be used for the call by dialling:
 - 80** for any available private line
 - 0** for any available line
 - 81 ÷ 83** for line 1 ÷ 3
3. Wait and proceed as follows according to the reply.
- 4a. Dial the number to be called when your hear the dial tone. The first digit must be entered within 10 seconds after which the telephone will be encapsulated and the line on-hold will call back.
- 4b. If you hear a deterrent tone, it means that the extension is not authorised to external calls. Hang up.
- 4c. If you hear the message "*Line not available*", it means all lines are busy. Hang up.

To switch from one conversation to the other, dial **R9**.

To end the active conversation and pick up the one on-hold, dial **RR**.

Hang up while the external call is in progress to end the external communication. The internal user on-hold will hear the call confirmation tone and the extension will ring each other back.

Hang up while the internal call is in progress to end the internal call and divert the local line to the other extension.

2.10 INCLUDE AND DIVERT INCLUDE

You can cut into a communication in progress if you call a busy extension only if the extension is enabled for this function.

When you hear the busy tone:

1. Dial **R** and wait for the dial tone.
2. Dial **2**, you will hear the include tone and communication will be established with the called extension.

To divert an external call to a busy extension, put the external call on-hold and call the extension. When you hear the busy tone:

1. Dial **R** and wait for the dial tone.
2. Dial **2**, you will hear the include tone and communication will be established with the called extension.
3. Hang up: the external call will be diverted to the extension which asked to be included.

2.11 THREE-PARTY CONFERENCE CALL

This function is used to establish a conference call between three parties (two internal and one external or one internal and two external).

To enter a call in progress:

1. Dial **R** and wait for the dial tone.
2. Dial the number of the extension to include in the conference.

Wait for reply, inform of the intension to establish a conference call and dial **R** followed by **78**.

During the conference call all parties will hear the conference call tone: the tone will be switched off as soon as one of the extensions hangs up and therefore ends the conference call.

2.12 INTERNAL CALL TIMED DIVERT TO OTHER EXTENSION

This function is used to divert all routed to your extension after five rings to another extension. A “divert” tone will be heard when the function is active when you pick up the handset. The telephone can be used to make calls in any case.

To switch the function on:

1. Pick up the handset and wait for the dial tone.
2. Dial **325 N** and wait for the confirmation message, where:
N = number of the extension where to divert calls **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To switch the function off:

1. Pick up the handset and wait for the dial tone.
2. Dial **325 N** and wait for the confirmation message.
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To check the function:

1. Pick up the handset and wait for the dial tone.
2. Dial **32540** and wait for the confirmation message.
3. Hang up.

2.13 FOLLOW-ME

This function is used to immediately divert all routed to your extension to another extension. A “divert” tone will be heard when the function is active when you pick up the handset. The telephone can be used to make calls in any case.

This function can be activated from the extension to which the calls will be diverted.

To switch the function on from the extension to which calls will be diverted:

1. Pick up the handset and wait for the dial tone.
2. Dial **# 627 N** and wait for the confirmation message, where:
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To switch the function off from your extension:

1. Pick up the handset and wait for the divert tone indicating that the service is on.
2. Dial **# 627 N** and wait for the confirmation message.
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To check the function off from your extension:

1. Pick up the handset and wait for the dial tone.
2. Dial **# 62740** and wait for the confirmation message.
3. Hang up.

2.14 INTERNAL CALL IMMEDIATE DIVERT TO OTHER EXTENSION

This function is used to immediately divert all routed to your extension to another extension by activating the Directory/Secretary function. A “divert” tone will be heard when the function is active when you pick up the handset. The telephone can be used to make calls in any case.

To switch the function on:

1. Pick up the handset and wait for the dial tone.
2. Dial **326 N** and wait for the confirmation message.
N = number of the extension where to divert calls **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To switch the function off:

1. Pick up the handset and wait for the divert tone indicating that the service is on.
2. Dial **326 N** and wait for the confirmation message.
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To check the function:

1. Pick up the handset and wait for the dial tone.
2. Dial **32640** and wait for the confirmation message.
3. Hang up.

2.15 DIRECTOR/SECRETARY FUNCTION

An extension (called “Director”) which has activated the immediate divert function to another extension (called “Secretary”) will not ring for any call. This telephone will only receive calls diverted from the “Secretary” extension to which the calls are diverted.

Example:

Extension 41 “Director” activates immediate divert to extension 42 “Secretary”.

“Secretary” is the only extension which may receive calls addressed to “Director” and divert them, with or without notice.

2.16 INTERNAL CALL DIVERT ON BUSY TO OTHER EXTENSION

This function is used to divert all routed to your extension when it is busy to another extension. A “divert” tone will be heard when the function is active when you pick up the handset. The telephone can be used to make calls in any case.

To switch the function on:

1. Pick up the handset and wait for the dial tone.
2. Dial **327 N** and wait for the confirmation message.
N = number of the extension where to divert calls **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To switch the function off:

1. Pick up the handset and wait for the divert tone indicating that the service is on.
2. Dial **327 N** and wait for the confirmation message.
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up.

To check the function:

1. Pick up the handset and wait for the dial tone.
2. Dial **32740** and wait for the confirmation message.
3. Hang up.

3 OTHER CAPABILITIES**3.1 KTS FUNCTIONS**

Director2 telephones may be enabled to work either in Standard or KTS mode: the two mode differ by the way calls from external lines are answered. In Standard mode, just pick up the handset to answer a call. In KTS mode, you will hear the dial tone when you pick up the handset. Press the function button associated to the local line which is ringing or enter the access code of the line (e.g. 81 if the call is coming from line 1). Simply pick up the handset to answer an internal call in either mode.

Operation in KTS mode:

INCOMING CALL FROM EXTERNAL LINE

The KTS extension will ring when one or more incoming calls from local lines are received but you will hear the dial tone when you pick up.

After picking up the handset, you can:

- a. answer the external call by pressing the function button corresponding to the line (F1, F2...)
 - or
 - enter the line number (81, 82...)
- b. make a call on a local line by pressing the function button associated to a free local line
 - or
 - enter a free line code
 - or
 - dial 0 to engage the first free line
- c. make an internal call by pressing the function button associated to the extension
 - or
 - dial an extension number

If two external calls directed to the KTS are received, you will hear the dial tone when you pick up. Select the line to answer either by pressing the function button associated to the line or by dialling the line number.

DIVERT AND CALL BACK

Answer an external call, either press the function button associated to the line where to divert to the call or press R followed by the extension where to divert the call.

The KTS telephone will be called back if the extension does not answer. You will hear the dial tone when you pick up: either press the function button associated to the line or dial the number corresponding to the line to take the call.

You can choose which line to take if the divert several calls from the KTS and several lines call back.

INTERNAL CALL

Pick up the handset to immediately answer a local call.

SEVERAL CALLS AT THE SAME TIME

If the KTS receives two calls (one from an extension and one from an external line), pick up the handset to answer the internal call.



The operating mode must be programmed (see par. 5.1 "Extension configuration procedure"). Alternatively, press F1 for Standard mode or F2 for KTS mode.

3.2 OPERATOR'S STATION

All unaddressed external calls, door phone calls and DISA calls directed to a non-existent number will be automatically diverted to the Operator's Station for a programmable time (Timer1) if this function is on.

At the timeout, the call will be directed to all extensions (except for door phone calls). If the Operator's Station is busy, a warning tone will be heard and the call will be rejected.

How to activate the Operator's Station:

1. Pick up the handset and wait for the dial tone.
2. Dial **# 771** and wait for the confirmation message.
3. Hang up.

How to deactivate the Operator's Station:

1. Pick up the handset and wait for the dial tone.
2. Dial **# 770** and wait for the confirmation message.
3. Hang up.

3.3 DO-NOT-DISTURB

This function is used to cut off the ringer of an extension for internal calls, external calls and door phone calls. In particular, you can define during programming which calls the service applies to so that the system can filter the calls and send a deterrent tone to the caller. This service must be enabled during programming according to a respective table for selecting the call type to be deactivated. Pick up the handset and wait for the divert tone indicating that the service is on. The telephone can be used to make calls in any case.

1. Pick up the handset and wait for the dial tone.

To set the function up:

2. Dial **322** followed by I, **C1**, **C2**, **C3**, **L1**, **L2**, **L3**, where:
 I = 1/0 select/deselect internal calls
C1 - C3 = 1/0 select/deselect door phone calls from bell 1-3
L1 - L3 = 1/0 select/deselect telephone calls from local line 1-3
3. Wait for the confirmation message.
4. Hang up.

To switch the function on:

2. Dial **321** and wait for the confirmation message.
3. Hang up.
4. A tone will be heard when you pick up the handset again.

To switch the function off:

2. Dial **320** and wait for the confirmation message.
3. Hang up.

3.4 NIGHT SERVICE ACTIVATION

This function is used to manually switch night configuration of the switchboard on and off.

This configuration has priority over automatic programming.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the "Enter programming number" prompt.

To switch night function on:

4. Dial **761 ***, wait for the "Enter setting" prompt.
5. Dial **1 #**, wait for the "The setting is..." reply.
6. Hang up.

To switch night function off:

4. Dial **761 ***, wait for the "Enter setting" prompt.

5. Dial **0 #**, wait for the “*The setting is...*” reply.
6. Hang up.

To check night service operation:

4. Dial **761 #**, wait for the “*The setting is...*” reply.
5. Hang up.

Night service can also be switched on using a short code.
These codes can only be used if “Short code” use is enabled in programming.

To switch the function on:

1. Pick up the handset and wait for the dial tone.
2. Dial **# 624** and wait for the confirmation message.
3. Hang up.

To switch the function off:

1. Pick up the handset and wait for the dial tone.
2. Dial **# 623** and wait for the confirmation message.
3. Hang up.

To check the function:

1. Pick up the handset and wait for the dial tone.
2. Dial **# 628** and wait for the confirmation message.
3. Hang up.

The default setting is 0.

3.5 HOT LINE

This function is used to automatically call a programmed number simply by picking up the handset if no actions are taken within 30 seconds.

The number may be an external number, an internal number or a service number (e.g. operation of a relay).

The local line will be freed 5 minutes after dialling the external number or hanging up the handset. The service is not repeated if the handset is still off-hook after 5 minutes. Hang the handset up.

3.6 EXTERNAL AMPLIFIER ACCESS

To access an amplifier system:

1. Pick up the handset and wait for the dial tone.
2. Dial **32840**.
The sound signal from your telephone will be made available to terminals COM and AMP.
3. Hang up to end the operation.

3.7 PAGING DIRECTOR2

For free-hands operation of a Director2 telephone:

1. Pick up the handset and wait for the dial tone.
2. Dial **328** followed by the number of the Director2 telephone.
3. Hang up to end the operation.

3.8 GENERAL PAGING

This function allows to send a voice message on an external amplifier connected to the system, by dialling **32840** with any enabled extension. By means of a suitable programming procedure it will be possible to activate the ATT1 relay during the paging call, in order to enable other devices.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “*Enter programming number*” prompt.

To select the desired paging mode:

4. Dial **779 *** , wait for the “*Enter setting*” prompt.
5. Dial **0/1#**, where 0 is paging standard, **1** paging with ATT1 activation, the system answers “*the setting is...*”.
6. Hang up the handset.

To restore the default setting:

4. Dial **779 *** , wait for the “*Enter setting*” prompt.
5. Dial **#**, wait for the “*The setting is...*” reply.
6. Hang up the handset.

To verify the parameter value:

4. Dial **779 #**, wait for the “*The setting is...*” reply.
5. Hang up the handset.

 The default setting is 0 which is standard paging mode.

3.9 LOCAL ROOM MONITOR

This function is used to listen to voices, sounds and noises in a room another than the one where the extension is fitted. This can be used to monitor activity in the room.

On the extension in the room to be monitored:

1. Pick up the handset.
2. Dial **323 N** and wait for the confirmation message, where:
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Leave the handset off hook.

On the extension from where to monitor the room:

1. Pick up the handset and wait for the dial tone.
2. Dial **323 N**, where:
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Leave the handset off hook.

Hang up the handset in the room to be monitored to switch the service off.

3.10 REMOTE ROOM MONITOR

This function is used to listen to voices, sounds and noises in a room where an extension is fitted (DISA must be enabled). This can be used to monitor activity in the room.

The connection time can be programmed (see par. 11.6) and extended by pressing any DTMF button during the last 10 seconds of connection indicated by a tone.

Improper or fraudulent use of this function is not allowed.

On the extension in the room to be monitored:

1. Pick up the handset.
2. Dial **323 N** and wait for the confirmation tone (the device will remain silent), where:
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Leave the handset off hook.

On the remote telephone from where to monitor the room:

1. Call the telephone number connected to the switchboard and wait for the DISA message.
2. Dial *** main password * # 323 N**, where:
N = your extension number **41 ÷ 52** for extensions 1 ÷ 12.
3. Hang up to end the function.

3.11 VOICEMAIL MESSAGES WARNING

This function is used to receive a warning when you have voicemail and play the messages from a remote location. After recording a message (at least 30 seconds), the switchboard will call the programmed number on a line configured as private and play the voicemail message five times. Press any DTMF button during the pause between two subsequent warnings to establish a connection to the answering machine. Use the "remote listening" procedure to listen to voicemail messages from a remote location.

1. Pick up the handset and wait for the dial tone.

To activate the function from any extension:

2. Dial **#621 L** and wait for the confirmation message, where:
L = 80 for any available private line
81 ÷ 83 for line 1 ÷ 3
3. Hang up.

To deactivate the function from any extension:

2. Dial **#620** and wait for the "Function off" message.
3. Hang up.

To check the function from any extension:

2. Dial **#622** and wait for the "Function off" message.
3. Hang up.

The function can be activated remotely by dialling:

*** main password * # code**

The message "incorrect command" will be heard if you attempt to activate the function on a non-private line or without programming the number where to divert the call.

3.12 DOSA CAPABILITY

This function allows an external user to use another telephone line to make a call.

The switchboard connects the two telephone lines for a programmable time (see par. 11.6). Press any DTMF button during the last 10 seconds of conversation (indicated by a tone) to extend the time.

Press ******* to end the call.

To switch the function on:

1. Call the switchboard and wait for the DISA message.
2. Dial *** main password * # L N** where:
 - L = 0** for any available line
 - 80** for any available private line
 - 81 ÷ 83** for line 1 ÷ 3
 - N =** telephone number to be called
3. The switchboard connects the two lines together.

If the number is stored in the directory, you can select the number during short code **39 xxx** where xxx is the position of the number in the directory.

3.13 CALL BACK

A caller can be put into communication on a private line with another telephone number on another private line for a programmable time (up to 99 minutes).

The first number is called and put into communication with another telephone number for the programmed time. Press ******* to end the call.

To activate the service from an external line:

1. Call the switchboard and wait for the DISA message.
2. Dial *** main password * # # 792 Number1 * Number2 * Time #**.

To switch the function on from an extension:

Engage the extension and enter **# 792 Number1 * Number2 * Time #** where:

- Number 1** = number dialled on first private line
- Number 2** = number dialled on second private line
- Time** = conversation time in minutes (1-99)

The caller will hear the message "*Function on, please hang up*".

3.14 SPEAKING CLOCK

This function can be used to play the time.

To read the time:

1. Pick up the handset and wait for the dial tone.
2. Dial **# 650** and wait for the time message.
3. Hang up.

3.15 ALARM

The function is used to set the alarm.

1. Pick up the handset and wait for the dial tone.

To set the alarm from an extension:

2. Dial **324 HH MM** and wait for the confirmation message, where:
 - HH** = hour (00 - 23)
 - MM** = minutes (00 - 59)
3. Hang up.

To switch the alarm off from an extension:

2. Dial **324 99** and wait for the confirmation message.
3. Hang up.

To query the alarm from an extension:

2. Dial **324 40** and wait for the confirmation message.
3. Hang up.

At the activation time, the telephone will ring for 20 seconds and then pause for 40 seconds: the sequence will be repeated five times after which the alarm is switched off.

If you pick up during the alarm, you will hear the message "*Alarm. It's...*".

3.16 SUPPLEMENTARY SERVICES PROVIDED BY TELECOM ITALIA

MF dial access.

To generate a flash pulse on a local line:

1. Press **R** (Flash) (MF) to put the external line on-hold.
2. Dial **33**.

4 DOOR PHONE TELEPHONE CAPABILITIES

This chapter describes the door phone capabilities which can be used by any keypad telephone, Urmet door phone-telephone and Director2 telephones.

Use of these services is simplified if a Urmet combined door phone-telephone or a Director2 telephone is used because these devices have buttons for the following door phone functions:
open outside door (35), connect to door unit (34), operate actuator relays 3 and 4 (36-37).

IMPORTANT: The Agorà 2 switchboard can be used to connect to different types of door phone systems according to the installed interface board.

Specifically:

- 4+N door phone interface (Ref. 1372/56)
- 1+N door phone interface (Ref. 1372/55)
- Bibus door phone interface (Ref. 1372/54)
- Digivoice door phone interface (Ref. 1372/53)

The available functions will also differ according to the system type and installed board.

4.1 CONNECTION TO DOOR PHONE UNIT

To connect to the door phone unit:

- Telephone: Pick up the handset and dial 34.
- Combined door phone-telephone: Press the specific button.
- Director2: Press the specific button.



This service is not provided in Bibus and Digivoice systems. In 1+N connection can only be established with the door unit following a call.

4.2 ANSWERING A DOOR PHONE CALL

A specific ringer is used for door phone calls on enabled telephones. The first user who replies will be put into communication with the door phone unit. All other extensions will stop ringing.

To answer a door phone call using an enabled telephone:

1. Pick up the handset.

To answer a door phone call from a telephone not enabled to ring but enabled to establish calls:

1. Pick up the handset and wait for the dial tone.
2. Dial **34** or **38**.



In Bibus and Digivoice systems if the telephone is not enabled this service is not provided.

4.3 ANSWERING THE DOOR PHONE DURING A CALL

The first call can be put on-hold and the second call answered if a door phone call is received during another call (indicated by a warning tone). You can also switch between conversations, i.e. speak with one caller and kept the other caller on-hold.

To put an internal conversation on-hold and answer a second door phone call:

1. Dial **R** and wait for the dial tone. The user on-hold will hear the on-hold tone.
- 2a. To answer the door phone, dial or press:

Telephone:	34
Combined door phone-telephone:	Specific button
Director2:	Specific button
- 2b. In Bibus and Digivoice system to answer the door phone, dial:

Telephone:	9
------------	----------

To disconnect from the door unit and resume the call on-hold, dial:

- | | |
|--------------------------------|-----------|
| Telephone: | RR |
| Combined door phone-telephone: | RR |
| Director2: | RR |

Hang up the handset during the door phone communication to go back to the call on-hold.

4.4 DIVERT WITH NOTICE OF A DOOR PHONE CALL

The divert with notice function is used to forward a door phone call from on telephone to another asking the whether to accept the call or not.

To divert a door phone call with notice:

1. Dial **R**, and wait for the dial tone.
2. Dial the number of the extension where to divert the call.
3. Wait for reply and proceed as follows accordingly.
 - 4a. If the extension replies and accepts the call, hang up to immediately establish conversation with the door phone.
 - 4b. If the extension does not reply or rejects the call and hangs up, dial **R** to resume conversation with the door phone.
 - 4c. If the extension is ringing but does not reply or if it is engaged, dial **RR** to resume the conversation with the door phone.

4.5 DIVERT WITHOUT NOTICE OF A DOOR PHONE CALL

The divert without notice function is used to forward a call from on telephone to another without asking the whether to accept the call or not.

To divert a call without notice:

1. Dial **R** and wait for the dial tone.
2. Dial the number of the extension where to divert the call.
3. Hang up.

One of the following cases may occur:

- The extension rings, receives the external call signal and picks up. Connection is established with the door phone.
- The extension rings, receives the external call signal and does not pick up. The call rings back to the telephone from where it was forwarded after 50 seconds.
- The extension is busy, receives the warning tone and hangs up. The door phone call signal is then received and picks up. Connection is established with the door phone.
- The extension is busy, receives the warning tone and hangs up. The door phone call signal is then received and does not pick up. The call rings back to the telephone from where it was forwarded after 50 seconds.
- The extension is busy, receives the warning tone and does not hang up. The call rings back to the telephone from where it was forwarded after 50 seconds.

In other words, if the call divert is not successful, the system will call the extension which originated the diverted back after 25 seconds.

4.6 DOOR PHONE FOLLOW-ME

This function is used to receive door phone calls on a previous programmed telephone number.

This connection lasts is programmable (see par. 11.6) and can be extended by pressing any DTMF during the last 10 seconds of connection (a tone will be heard). A “divert” tone will be heard when the function is active when you pick up the handset. The telephone can be used to make calls in any case.

Press ******* to end the call.

1. Pick up the handset and wait for the dial tone.

To activate the function from any extension:

2. Dial **#631 L** and wait for the confirmation message, where:
L = 0 for any available line
81 ÷ 83 for line 1 ÷ 3
3. Hang up.

To deactivate the function from any extension:

2. Dial **#630** and wait for the “Function off” message.
3. Hang up.

To check the function from any extension:

2. Dial **#632** and wait for the “Function off” message.
3. Hang up.

The function can be activated remotely by dialling:

*** main password * # code**

The message “*incorrect command*” will be heard if you attempt to activate the function without programming the number where to divert the call.

4.7 DOOR PHONE ANSWERING SERVICE

This service is used to record door phone messages if the door phone call is not picked up within the predetermined time. The answering machine will play a recorded message to the door phone and record the message for a maximum predetermined time after which communication is shut down.

Connect the answering machine to an extension enabled to ring following a door phone call; the operation of the same to less than 15 seconds. In this way, the message will be played to the door phone unit if no answer is received from the extension.

Important: The maximum recording time must be programmed on the answering machine. Do not wait for a deterrent tone or silence to release the door phone line.

5 DOOR PHONE CAPABILITIES

IMPORTANT: The Agorà 2 switchboard can be used to connect to different types of door phone systems according to the installed interface board.

Specifically:

- 4+N door phone interface (Ref. 1372/56)
- 1+N door phone interface (Ref. 1372/55)
- Bibus door phone interface (Ref. 1372/54)
- Digivoice door phone interface (Ref. 1372/53)

The available functions will also differ according to the system type and installed board.

The door opener relays/actuators can be programmed (see Programming section par 10.1 and par. 10.2) to performed different functions.

5.1 OPENING AN OUTSIDE DOOR

To open the door:

- **Telephone**
 1. Pick up the handset and wait for the dial tone.
 - 2a. Dial **35 N**, where **N = 1/2/3** is the door to be opened (4+N door phone interface)
or
 - 2b. Dial **35** (Digivoice, Bibus or 1+N door phone interface, in the latter case the door from which the call was received will be opened)
 3. Hang up.
- **Combined door phone-telephone**
 - 1a. Press the specific button and dial **35 N**, where **N = 1/2/3** is the door to be opened (4+N door phone interface)
or
 - 1b. Press the specific button (Digivoice, Bibus or 1+N door phone interface, in the latter case the door from which the call was received will be opened)
- **Director2**
 - 1a. Press the specific button and dial **35 N**, where **N = 1/2/3** is the door to be opened (4+N door phone interface)
or
 - 1b. Press the specific button (Digivoice, Bibus or 1+N door phone interface, in the latter case the door from which the call was received will be opened)



In Bibus and Digivoice system, it isn't possible to open directly the external door, if not after an incoming call.

5.2 OPENING AN OUTSIDE DOOR DURING A CONVERSATION

To open an outside door while you are engaged in a conversation (internal, external or door phone):

- Telephone:** Dial **R35**
Combined door phone-telephone: Press the specific button
Director2: Press the specific button

You will not need to enter the door number if the door is opened following a door phone call: the system will automatically open the door corresponding to the unit which made the call. The interrupted conversation will be automatically resumed after the tone.

5.3 ACTUATOR RELAY

This function permits to use an actuator with an internal or external phone. On the PABX one relay (ATT1) is present that can be used to act commands like: lights, heating system. There are also available on the doorphone interfaces, 3 actuators (ATT2, ATT3, ATT4) for different functions (door open, switchboard call, staircase lights) depending on the interface.



On 4+N interface these 3 actuators are executed by relays present on the interface; on the other interfaces there aren't relays but commands act directly on the relays of the doorphone system.

Actuator 1:

The PABX actuator may work according to settings as stable actuator (open/closed) or timed actuator (800ms/1600ms) to control external devices, such as the KlimatZoom thermostat timer (Ref. 1430/3).

To remotely control the actuator from an extension:

1. Pick up the handset and wait for the dial tone.
2. Dial **55 0** to switch the actuator off (stable) or to switch it on for 800ms (timed)
55 1 to switch the actuator off (stable) or to switch it on for 1600ms (timed)
3. Hang up.

In the table the functions of these 3 actuators for the 4 different doorphone interfaces are explained. If the actuator is programmable (see specific paragraphs) the default function is indicated.

Door phone interface	ATT2	ATT3	ATT4
4+n (1372/56)	Open door 1 Programmable (1-9 sec) Code: R35 + 1	Open door 2 Programmable (1-9 sec) Code: R35 + 2	1) Stable actuator: R37+0/1 (OFF/ON) (default)
			2) Timed actuator: R37+0/1 (800/1600ms)
			3) Open door 3 Programmable (1-9 sec) Code: R35 + 3
1+n (1372/55)	Open door 1 Code: R35	Open door 2 Code: R35	Door opener 3 Code: R35
Digivoice (1372/53)	Door opener Code: R35	Switchboard call Code: R36	Staircase lights Code: R37
Bibus (1372/54)	Door opener Code: R35	Switchboard call Code: R36	Staircase lights Code: R37

To remotely operate an actuator from an external telephone, with DISA and password:

1. Call the switchboard and wait for the DISA message.
2. Dial **★ main password ★ ★ actuator** and wait for the confirmation, where **actuator** is the previously specified code (550/1 for the basic actuator or one of the codes in the table for specific actuators of the various door phone interfaces).

To remotely operate an actuator from an external telephone, via CLI and without password (see par. 6.15 and par. 6.16 for programming):

1. Call the switchboard and wait for the tone.
2. Dial *** actuator mode #**, within 5 seconds, where:

actuator =	1 for basic actuator
	2-3-4 respectively for the three actuators of the various door phone interfaces
mode =	1 to deactivate the control
	2 to activate the control stably
	3 to temporarily activate the command for 800ms
	4 to temporarily activate the command for 1600ms

Other actuations can be controlled within 10 seconds otherwise the call is terminated.

5.4 SECOND DOOR PHONE CALL

A second call can be obtained by connecting a second door phone call circuit to terminals CA2/6 (4+N board) or terminals 1/2B (1+N board).

5.5 THIRD DOOR PHONE CALL

A third call can be obtained by connecting a second door phone call circuit to terminals CA3/6 (4+N board) or terminals 1/2C (1+N board).

5.6 RELAY ACTIVATION BASED ON CLI

This function allows to activate the ATT1 relay present on the base, after the identification of a CLI on the trunk line; up to 10 telephone numbers can be enabled to activate the function.

A call on the programmed trunk line (even more than one) coming from one of the stored numbers, causes the activation of the ATT1 relay. The function is active with and without DISA.



In order to use this feature, it should be necessary to take up a subscription with the telephone carrier in order to receive the caller-ID.

Programming required: “Trunk lines configuration”, “Numbers table for relay activation” and “Programming for actuators relays operating mode”.

In order to program the telephone number used for CLI activation, see the par. 6.17 “Number tables programming for relay activation”.

In order to enable the trunk line where the function will be active, program the parameter **45X** index **H**, as described in par. 4.1 “Lines configuration in timed mode”. To program the ATT1 relay in timed mode, see the par. 10.1 “Programming of actuator relays operating mode”.

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1 INTRODUCTION

The AGORA 2 system can be programmed by the user in different modes: via telephone or by using the SCAITERM2NET application on PC connected to the RS232 interface of the PABX or USB or via IrDA and PDA. The system must be initially configured, after which the configuration may be changed by the user according to needs. It is always possible to revert to the original configuration. Programming via SCAITERM2NET is recommended because it is easier to use and because the settings may be saved and globally restored.

Programming by telephone is guided by tones and voice messages which suggest the actions to be performed, provide information and indicate errors. These are intended to help the user must you do not need to wait for the message to proceed in the programming procedure.

Programming consists of the following Steps:

1. Access via password.
2. Select function to be performed.
3. Enter the data related to the selected function.

Programming is accessed by a password. The following passwords are used:

- A main system password (four digits) for programming system parameters. The default password is 1000.
- A secondary password for each extension (four digits) for programming extension parameters. The default passwords are 2011 for the first extension, 2012 for the second extension and so on to 2022 for the twelfth extension.

The programming functions are identified by a respective code and allow to:

- Set new configuration parameters.
- Cancel current settings and restore default setting.
- Check current settings.

The following procedure generally applies.

1. Pick up the handset and wait for the dial tone.
2. Dial *** password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

New programming:

4. Enter the function code followed by *****, the system will reply by channelling the “Enter setting” message.
5. Enter the function code followed by **#**, the system will reply by channelling the “The setting is...” message.
6. Enter ***** to start a new programming procedure or hang up the handset to end.

To cancel the current setting and restore default settings:

4. Enter the function code followed by *****, wait for the “Enter setting”.
5. Dial **#**, wait for the “The setting is...” reply..
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check the current settings:

4. Enter the function code followed by **#**, the system will reply by channelling the “Enter setting” message.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The “Incorrect command” message will be heard followed by a configuration tone in the case of errors.

All programming procedures can be performed from any extension.



9 leaves the previous value.

If several digits need to be entered, you do not need to reach the end of the string. Simply stop when you reach the parameter to be edited and press # to end programming.

Important: Only the configuration parameters of your own extension can be changed by using the secondary password. To configure your extension from another extension, enter:

*** secondary password * your extension number (or index preceded by 0) #.**

N.B.: the “public” parameters (not directories or password) can be queried by accessing programming without password (i.e. by entering ***#**) but not parameters can be changed.

2 ENABLED CLASSES

Limitations may be applied to communications made and received by extensions. For this purpose, an extension is characterised by its profile which establishes which communications are allowed and which are not. The system allows to define several profiles (called Enabled classes) and to associate a profile to each extension. In this way, each extension will behave in a specific way defined by the class it is associated to. Several extensions may behave in the same way, if they are associated to the same class.

The following are distinguished according to the communication type:

- Telephone Enabled classes, referred to telephone communications.
- Door phone enabled classes, referred to door phone communications.

No limitations are envisaged for internal calls and for emergency calls (112, 113, 118, etc.): these calls are always possible for any extension regardless of its enabled class. Emergency numbers (which are programmable) are included in the emergency number table.

2.1 TELEPHONE ENABLED CLASSES

Telephone enabled classes define which telephone communications can be established.

The call types are shown in the following table: each type can be authorised or not.

TELEPHONE CALLS		
Types	Description	
Inbound	Divert	Reception of external calls diverted from another extension with or without notice.
	DISA	Reception of DISA external calls to the extension, to a group.
	Broadcast	Reception of external calls.
Outbound	Complete local	Possibility of making local calls to all numbers with the same local area code.
	Limited local	Possibility of making local calls to all numbers with local area code included in the Local Area Code Table, i.e. to numbers starting with the one of the numbers listed in the table. If the table is empty, no number is allowed.
	Complete national	Possibility of making long-distance calls to all numbers with code other than the local area code.
	Limited national	Possibility of making long-distance calls only to the numbers in the National Area Code Table, i.e. to numbers starting with one of the numbers listed in the table. If the table is empty, no number is allowed.
	Complete international	Possibility of making international calls to all numbers with 00 code.
	Limited international	Possibility of making international calls (with 00 code) only to the numbers in the International Code Table, i.e. to numbers starting with one of the numbers listed in the table. If the table is empty, no number is allowed.
	All companies	Possibility of making calls using other telephone companies, i.e. to all numbers with 10 code.
	Limited companies	Possibility of making calls only to the companies listed in the Company Table and only to the numbers listed in the Company Numbers Table, i.e. to those starting with one of the numbers listed in the table. If the table is empty, no number is allowed.
	Mobile phones	Possibility of calling mobile phones, i.e. calling numbers which start with 3.

Up to eight telephone enabled classes (programmable by the user) can be established.

The following tables show the default settings and respective descriptions (1/0 indicate on/off, respectively).

DEFAULT TELEPHONE ENABLED CLASSES											
Options			Class 0	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8
Inbound	Divert	A	0	1	1	1	1	1	1	1	1
	DISA	B	0	1	1	1	1	1	1	1	1
	Broadcast	C	0	0	1	1	1	1	1	1	1
Outbound	Complete local	D	0	0	0	0	1	1	1	1	1
	Limited local	E	0	0	0	1	0	1	1	1	1
	Complete national	F	0	0	0	0	0	0	1	1	1
	Limited national	G	0	0	0	0	0	1	1	1	1
	Complete international	H	0	0	0	0	0	0	0	0	1
	Limited international	I	0	0	0	0	0	0	0	1	1
	All companies	L	0	0	0	0	0	1	1	0	1
	Limited companies	M	0	0	0	0	1	1	1	0	1
	Mobile phones	N	0	0	0	0	0	0	1	1	1

DEFAULT ENABLED CLASSES	
Class	Description
0	Authorised to receive and make internal calls.
1	Authorised to receive telephone calls diverted from another extension and DISA calls.
2	Authorised to receive telephone calls without limitations.
3	Authorised to receive telephone calls without limitations and to make local calls (within the local area district) according to the Local Area Code Table filter.
4	Authorised to receive telephone calls without limitations, make local calls (within the local telephone district) without limitations and to make calls using the telephone companies limited in the table and the respective codes.
5	Authorised to receive telephone calls without limitations, make local calls (within the local telephone district) without limitations, make long-distance calls to the numbers in the National Area Code Table and make calls using telephone companies without limitations.
6	Authorised to receive telephone calls without limitations, make local calls (within the local telephone district), make long-distance calls and use telephone companies without limitations and to make calls to mobile phones.
7	Authorised to receive telephone calls without limitations, make local calls (within the local telephone district), make long-distance calls, make international calls according to the code table and make calls to mobile phones.
8	No restrictions.

Class 8 is assigned to all extension by default.



You will need to program "Your district area code" to discriminate between local calls and national calls.



The enabled classes do not manage special numbers, payment numbers and not. To block these types of numbers it's necessary to use the Black List and indicate which numbers you want to block.

2.2 DOOR PHONE ENABLED CLASSES

Door phone enabled classes define which door phone communications can be established.

The call types are shown in the following table: each type can be authorised or not.

DOOR PHONE CALLS		
Types		Description
Bell 1	Voice	Reply on absence to calls from bell 1 and calls directed to door unit.
	Ringer	Direct reception with ringer of calls from bell 1.
Bell 2	Voice	Reply on absence to calls from bell 2 and calls directed to door unit.
	Ringer	Direct reception with ringer of calls from bell 2.
Bell 3	Voice	Reply on absence to calls from bell 3 and calls directed to door unit.
	Ringer	Direct reception with ringer of calls from bell 3.

The door opener function of a door phone is allowed to each extension enabled for the door phone, i.e. for which at least one operation concerning the door phone is authorised (ringer or voice).

Up to eight door phone enabled classes (programmable by the user) can be established.

The following tables show the default settings and respective descriptions (1/0 indicate on/off, respectively).

DEFAULT DOOR PHONE ENABLED CLASSES											
Options			Class 0	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8
Bell 1	Voice	A	0	1	1	1	1	1	1	0	1
	Ringer	B	0	0	1	1	1	1	1	0	1
Bell 2	Voice	C	0	0	0	1	1	0	0	1	1
	Ringer	D	0	0	0	0	1	0	0	1	1
Bell 3	Voice	E	0	0	0	0	0	1	1	1	1
	Ringer	F	0	0	0	0	0	0	1	1	1

DEFAULT DOOR PHONE ENABLED CLASSES

Class	Description
0	No enabled.
1	Authorised to reply on absence for calls from door unit 1 and establish communication with the door unit by dialling 34.
2	Authorised for direct reception with ringer of calls from door unit 1 and establish communication with the door unit by dialling 34.
3	Authorised for direct reception with ringer of calls from door unit 1 and establish communication with the door unit by dialling 34. Authorised to reply on absence for calls from door unit 2 and establish communication with the door unit by dialling 34.
4	Authorised for direct reception with ringer of calls from door units 1 and 2 and establish communication with the door units by dialling 34.
5	Authorised for direct reception with ringer of calls from door unit 1 and establish communication with the door unit by dialling 34. Authorised to reply on absence for calls from door unit 3 and establish communication with the door unit by dialling 34.
6	Authorised for direct reception with ringer of calls from door units 1 and 3 and establish communication with the door units by dialling 34.
7	Authorised for direct reception with ringer of calls from door units 2 and 3 and establish communication with the door units by dialling 34.
8	Authorised for direct reception with ringer of calls from door units 1-2-3 and establish communication with the door units by dialling 34.

Class 8 is assigned to all extension by default.

3 PASSWORD PROGRAMMING PROCEDURES

Two passwords are envisaged: one main password enabling all programming functions and one secondary password associated to each extension for enabling programming functions of the extension itself.

The default passwords may be edited: in this case it is advisable to write them down to avoid forgetting them.

3.1 MAIN PASSWORD PROGRAMMING PROCEDURE

This function is used to edit the main four digits password (digits from 0 to 9).

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To edit the main password:

4. Dial **940 ***, wait for the “Enter setting” prompt.
5. Enter the new four-digit password (excluding ***,#** and flash).
6. Dial **#**, wait for the “The setting is...” reply.
7. Hang up.

To check the main password:

4. Dial **940** followed by **#**, wait for the “The setting is...” reply.
5. Hang up.

The “Incorrect command” message will be heard followed by a configuration tone in the case of errors.

3.2 SECONDARY PASSWORD PROGRAMMING PROCEDURE

This function is used to change the secondary password associated to each extension and consist of from 0 to 4 digits (0-9).

The secondary password can be cancelled.

A secondary password may be entered via the main password.

1. Pick up the handset and wait for the dial tone.
2. Dial *** secondary password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.
4. Dial **930 ***, the system will reply “Enter the extension”.
5. Dial extension *****, wait for the “Enter setting” prompt.
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022).

To edit the secondary password:

6. Enter the new password consisting of from 0 to 4 digits (excluding ***,#** and flash).
7. Dial **#**, wait for the “The setting is...” reply.
8. Hang up.

To check the secondary password:

6. Dial **#**, wait for the “The setting is...” reply.
7. Hang up.

The “Incorrect command” message will be heard followed by a configuration tone in the case of errors.

The secondary password default settings are 2011, 2012, to 2022 associated to the first, second and twelfth extension, respectively.

4 TRUNK LINE PROGRAMMING PROCEDURES

4.1 TRUNK LINE CONFIGURATION

The function allows to program, for each trunk line, the following parameters:

- **DISA and FAX**

DISA service allows to address a call to an internal phone after dial.

FAX service allows to recognize automatically an incoming fax, which will be addressed to the extension line configured as fax during programming (see paragraph 9.4).

DISA and FAX enable is configurable according to day, night and holiday.

The values can be:

- 0 for no enable
- 1 to enable only FAX
- 2 to enable only DISA
- 3 to enable DISA and FAX

- **Enabling**

It allows to enable or disable the use of trunk line.

The values can be:

- 0 to disable
- 1 to enable

- **Type**

It allows to configure the lines as trunk, private or door phone.

The line configured as private can not be accessed with 0; this line is needed to activate some services as call transfer, DOSA, callback and to signal the presence of messages in the answering machine (see related paragraphs).

The line configured as door phone line can not be accessed with 0 or 80; this line is needed to connect the 2VOICE video apartment interface and the switchboard to a 2VOICE door phone system.

The values can be:

- 0 for trunk line
- 1 for private line
- 2 for door phone line

- **LCR**

It allows to enable LCR (Least Cost Routing).

The Least Cost Routing is a switchboard function which allows to automatically route calls to the most convenient carrier, after rates have been correctly configured in the ScaiTerm2LCR PC application, provided with the switchboard, and after the service configuration file has been sent to the switchboard with ScaiTerm2Net program. For further information, see the software manual in the CD present in the switchboard pack.

After the service has been configured, this parameter allows to enable or disable it on each line.

The values can be:

- 0 to disable
- 1 to enable

- **Fax message**

If fax recognition is active, with this programming it is possible to select the message or the tone emitted when the PABX engages the line to recognize an incoming fax. It is possible to select among:

- 0 no tone
- 1 for tone (beep)
- 2 for message "Please wait".

- **CLI based relay activation**

It allows to activate the ATT1 relay on the base, after a CLI has been recognized on the trunk line. The relay is activated for 1600ms.

To program the enabled numbers, see "Telephone number table programming for relay activation" in this booklet.

This function works properly if the ATT1 relay is programmed for timed operation mode; see "Actuator relays operating mode programming" in this booklet.

Procedure

1. Pick the handset up and wait for the dial tone.
2. Enter *** main password #** and wait for the programming tone.
3. Enter *****, the system will answer "Enter the programming number".

Programming a trunk line configuration:

4. Enter **45 X ***, the system will answer "Enter the programming value", where: X = 1 ÷ 3 for line 1 ÷ 3
5. Enter **A, B, C, D, E, F, G, H** where:
 - A = 0 ÷ 3 Disa and Fax Day
 - B = 0 ÷ 3 Disa and Fax Night
 - C = 0 ÷ 3 Disa and Fax Saturday and Sunday
 - D = 0 / 1 line disabled / enabled
 - E = 0 / 1 / 2 line: 0: trunk / 1: private / 2: door phone
 - F = 0 / 1 LCR disabled / enabled
 - G = 0 / 1 / 2 fax message: 0: no tone / 1: Tone / 2: Please wait
 - H = 0/1 CLI-based relay activation disabled / enabled
6. Enter **#**, the system will answer "The programming value..."
7. Enter ***** to start another programming or hang the handset up to end.

Deleting a trunk line configuration and restoring factory default values:

4. Enter **45 X ***, the system will answer "Enter the programming value", where: X = 1 ÷ 3 for line 1 ÷ 3
5. Enter **#**, the system will answer "The programming value..."
6. Enter ***** to start another programming or hang the handset up to end.

Checking a trunk line configuration:

1. Enter **45 X #**, the system will answer *"The programming value..."* where: X = 1 ÷ 3 for line 1 ÷ 3
5. Enter ***** to start another programming or hang the handset up to end.

The factory default value for the configuration of a line is 00010010.

4.2 DOMUS CELL GSM INTERFACE AUTOMATIC ROUTING

The service allows to route automatically particular call types (mobiles, international calls, etc.) to specific lines, where a Domus Cell GSM interface or a VoIP Gateway or other devices can be installed (for models, see the Urmet catalogue).

The function allows to program not only the service activation, but also the call reroute, if the line is not available for the desired outgoing call. For example, if the Domus Cell line is used by an extension line and another user wants to call a mobile, it is possible to allow (to enable, use value 1) or not to allow (to disable, use value 0) that the second call is performed on the PSTN line.

Similarly it is possible to enable or disable the forwarding through the Domus Cell for calls directed to residential numbers.

To program the service:

1. Pick up the handset and wait for the dial tone.
2. Enter *** main password #** and wait for the programming tone.
3. Dial *****, the system answers *"Enter the programming item number"*.
4. Dial **769 X ***, the system answers *"Enter the programming value"*, where:
X = 1 ÷ 3 for line (1 ÷ 3)
5. Enter A, B, C where:
A = 0/1: Domus Cell Routing disabled/enabled
B = 0/1: call reroute on trunk line disabled/enabled if the Domus Cell line is busy
C = 0/1: disabled/enabled calls reroute on Domus Cell if the trunk line is busy
6. Dial **#**, the system answers *"The programming value ..."*.
7. Dial ***** to start another programming session or hang up to end.

To delete the service:

1. Pick up the handset and wait for the dial tone.
2. Enter *** main password #** and wait for the programming tone.
3. Dial *****, the system answers *"Enter the programming item number"*.
4. Dial **769 X ***, the system answers *"Enter the programming value"*, where:
X = 1 ÷ 3 for line (1 ÷ 3)
5. Dial **#**, the system answers *"The programming value ..."*.
6. Dial ***** to start another programming session or hang up to end.

To verify the service:

1. Pick up the handset and wait for the dial tone.
2. Enter *** main password #** and wait for the programming tone.
3. Dial *****, the system answers *"Enter the programming item number"*.
4. Dial **769 X #**, the system answers *"The programming value ..."*, where:
X = 1 ÷ 3 for line (1 ÷ 3)
5. Dial ***** to start another programming session or hang up to end.

The programming value is 000 by default for all the lines.

4.2.1 CODES FOR AUTOMATIC ROUTING OF DOMUS CELL GSM INTERFACE

The function allows to set, for each line, up to two codes used to route the calls to the Domus Cell GSM interface.

To program codes:

1. Pick up the handset and wait for the dial tone.
2. Enter *** main password #** and wait for the programming tone.
3. Dial *****, the system answers *"Enter the programming item number"*.
4. Dial **77 X N ***, the system answers *"Enter the programming value"*, where:
X = 1 ÷ 3 for line (1 ÷ 3)
N = code index (0 ÷ 1)
5. Dial **NUM #**, the system answers *"The programming value ..."*, where:
NUM = code with 4 digits max.
6. Dial ***** to start another programming session or hang up to end.

To delete codes:

1. Pick up the handset and wait for the dial tone.
2. Enter *** main password #** and wait for the programming tone.
3. Dial *****, the system answers *"Enter the programming item number"*.
4. Dial **77 X N ***, the system answers *"Enter the programming value"*, where:
X = 1 ÷ 3 for line (1 ÷ 3)
N = code index (0 ÷ 1)
5. Dial **#**, the system answers *"The programming value ..."*
6. Dial ***** to start another programming session or hang up to end.

To verify codes:

1. Pick up the handset and wait for the dial tone.

2. Enter *** main password #** and wait for the programming tone.
3. Dial *****, the system answers “Enter the programming item number”.
4. Dial **77 X N #**, the system answers “The programming value ...”, where:
X = 1 ÷ 3 for line (1 ÷ 3)
N = code index (0 ÷ 1)
5. Dial ***** to start another programming session or hang up to end.

For each position the default values are the following:

Position	Code	Routing
0	3	Telephone calls to all the mobiles
1	Empty	

4.3 ASSIGNING OUTBOUND LINES TO EXTENSIONS

This function can be used to define which local line can be used by an extension to make calls.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.
4. Dial **410 ***, the system will reply “Enter the extension”.

To program outbound lines to an extension:

5. Dial **extension ***, wait for the “Enter setting” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022).
6. Dial A, B, C, where:
A = 0 / 1: Line 1 off/on
B = 0 / 1: Line 2 off/on
C = 0 / 1: Line 3 off/on
7. Dial **#**, wait for the “The setting is...” reply.
8. Dial ***** to start a new programming procedure or hang up the handset to end.

To cancel outbound line assigned to an extension and restore the default settings:

5. Dial **extension ***, wait for the “Enter setting” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022).
6. Dial **#**, wait for the “The setting is...” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To query outbound lines to an extension:

5. Dial **extension #**, wait for the “Enter setting” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022).
6. Dial ***** to start a new programming procedure or hang up the handset to end.

The default outbound line assignment to an extension is 111.

4.4 ASSIGNING INBOUND LINES TO EXTENSIONS

This function can be used to define on which local line an extension can receive calls.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.
4. Dial **420 ***, the system will reply “Enter the extension”.

To program inbound lines to an extension:

5. Dial **extension ***, wait for the “Enter setting” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022).
6. Dial A, B, C, where:
A = 0 / 1: Line 1 off/on
B = 0 / 1: Line 2 off/on
C = 0 / 1: Line 3 off/on
7. Dial **#**, wait for the “The setting is...” reply.
8. Dial ***** to start a new programming procedure or hang up the handset to end.

To cancel inbound line assigned to an extension and restore the default settings:

5. Dial **extension ***, wait for the “Enter setting” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022).
6. Dial **#**, wait for the “The setting is...” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To query inbound lines to an extension:

5. Dial **extension #**, wait for the “Enter setting” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022).
6. Dial ***** to start a new programming procedure or hang up the handset to end.

The default inbound line assignment to an extension is 111.

4.5 PROGRAMMING LOCAL LINE FLASH TIME

This function is used to define the flash time on local line according to the country where the switchboard is used.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.

To program the flash time:

4. Dial **480 ***, wait for the “*Enter setting*” prompt.
5. Dial **X #**, wait for the “*Enter setting*” prompt, where:
X = flash time 1 - 4 (1 = 100ms, 2 = 270ms, 3 = 600ms, 4 = 900ms)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete flash time programming and restore the default settings:

4. Dial **480 ***, wait for the “*Enter setting*” prompt.
5. Dial **#**, wait for the “*The setting is...*” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To query the flash time:

4. Dial **480 #**, wait for the “*The setting is...*” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 1 (100ms).

4.6 PROGRAMMING AN EXTERNAL LINE ENGAGEMENT CODE

This function is used to define the code to be used to engage the first free external line.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.

To program the line engagement code:

4. Dial **600 ***, wait for the “*Enter setting*” prompt.
5. Dial **X #**, wait for the “*Enter setting*” prompt, where:
X = engagement code 0 or 9
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete line engagement code programming and restore the default settings:

4. Dial **600 ***, wait for the “*Enter setting*” prompt.
5. Dial **#**, wait for the “*The setting is...*” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To query the line engagement code:

4. Dial **600 #**, wait for the “*The setting is...*” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 0.

4.7 PROGRAMMING THE DOOR PHONE CODES TABLE

With this programming the codes sent to the trunk line (configured as door phone line) can be changed; when an apartment station dials standard door phone codes, the telephone line must be configured as door phone line. Standard codes are 34 for the connection to the door unit, 35 for door lock release, 36 for the actuator relay, 37 for the actuator relay and #34 for video auto-on on the door unit. The sent codes must be entered according to the interface connected to the trunk line.

To program:

1. Pick the handset up and wait for the dial tone.
2. Enter *** main password #** and wait for the programming tone.
3. Enter *****, the system will answer “*Enter the programming number*”.
4. Enter **78 N ***, the system will answer “*Enter the programming value*” where: N = code index (3 ÷ 7).
5. Enter **NUM #**, the system will answer “*The programming value*” where: NUM = number composed by 10 digits max. (*, # and Pause can be entered).
6. Enter ***** to start another programming or hang the handset up to end.

To delete:

1. Pick the handset up and wait for the dial tone.
2. Enter *** main password #** and wait for the programming tone.
3. Enter *****, the system will answer “*Enter the programming number*”.
4. Enter **78 N ***, the system will answer “*Enter the programming value*” where: N = code index (3 ÷ 7).
5. Enter **#**, the system will answer “*The programming value...*”.
6. Enter ***** to start another programming or hang the handset up to end.

To check:

1. Pick the handset up and wait for the dial tone.
2. Enter *** main password #** and wait for the programming tone.
3. Enter *****, the system will answer "Enter the programming number".
4. Enter **78 N ***, the system will answer "The programming value..." where: N = code index (3 ÷ 7).
5. Enter ***** to start another programming or hang the handset up to end.

 See table n. 7 at table chapter.

 For codes used to activate services in 2VOICE riser, see the 2VOICE system manual.

5 EXTENSION PROGRAMMING PROCEDURES

5.1 EXTENSION CONFIGURATION

This function allows to program the following extension parameters, with 440 code and the explained procedure.

- A. Immediate engagement.** This function enables the extension to engage the telephone line simply by picking the handset up without dialling 0. If you need to make an internal call or you need to program the PABX digit R and wait for the dial tone.
The possible settings are:
A = 0 off
A = 1 on
- B. Clearing time.** This function is used to define the clearing time recognised by the switchboard.
The possible settings are:
B = 0 for 99 ms
B = 1 for 199 ms (default)
B = 2 for 299 ms
B = 3 for 399 ms
B = 4 for 499 ms
B = 5 for 599 ms
B = 6 for 699 ms
B = 7 for 799 ms
B = 8 for 899 ms
- C. R button time**
C = 0 for 80 ms (default)
C = 1 for 180 ms
C = 2 for 280 ms
C = 3 for 380 ms
C = 4 for 480 ms
C = 5 for 580 ms
C = 6 for 680 ms
C = 7 for 780 ms
C = 8 for 880 ms
- D. Warning tone.** This function deactivates the warning tone generated by inbound calls, other telephone line or door phone while a call is in progress (this tone may cause problems if a fax, modem or data line is used).
The possible settings are:
D = 0 tone off
D = 1 tone on
- E. Inclusion.** This is used to enable an extension to cut into a conversation in progress.
The possible settings are:
E = 0 no inclusion
E = 1 inclusion enabled
- F. Day ringer.** This function is used to switch off the external call ringer during day operation. Calls can still be answered by dialling 38 if reply on absence is enabled.
The possible settings are:
F = 0 ringer off
F = 1 ringer on
- G. Night ringer.** This function is used to switch off the external call ringer during night operation. Calls can still be answered by dialling 38 if reply on absence is enabled.
The possible settings are:
G = 0 ringer off
G = 1 ringer on
- H. Telephone type.** This function is used to define the type of telephone. The possible settings are:
H = 0 MF telephone
H = 1 Director2 telephone
H = 2 KTS telephone

Procedure

1. Pick up the handset and wait for the dial tone.
2. Dial *** secondary password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.
4. Dial **440 ***, the system will reply “*Enter the extension*”.

To program the parameters of an extension:

5. Dial **extension ***, wait for the “*Enter setting*”, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial i parameters A B C D E F G H, where:
A = 0 / 1 immediate engagement off/on
B = (0 - 8) clearing time
C = (0 - 8) R button flash time
D = 0 / 1 warning tone off/on
E = 0 / 1 inclusion off/on
F = 0 / 1 day ringer off/on
G = 0 / 1 night ringer off/on
H = 0 / 1 / 2 telephone type (BCA, Director2 or Director2 with KTS functions)
7. Dial **#**, wait for the “*The setting is...*” reply.
8. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete the parameters of an extension and restore default settings:

5. Dial **extension ***, wait for the “*Enter setting*”, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial **#**, wait for the “*The setting is...*” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To verify the parameters of an extension:

5. Dial **extension #**, wait for the “*The setting is...*” reply. where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 01011110.

6 CALL ENABLED PROGRAMMING PROCEDURES

6.1 AUTHORISED NUMBERS OR CODES

This function is used to program the number and/or code tables for authorising different call types, namely: Local, National, International.

These tables are used to restrict the outbound calls. For example, if a telephone is authorised for National traffic with the restrictions determined by the respective table, it can only be used to dial telephone numbers which start with one of the numbers contained in the table. In other words, each table is a filter for the respective call type.

Up to 10 numbers can be configured in each table.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.

To program numbers and/or codes authorised for each type of traffic:

4. Dial **88 X N** where:
X: table type index
0 = Local Area Code Table
1 = National Area Code Table
2 = International Code Table
N: number/code index 0 - 9
5. Dial *****, wait for the “*Enter programming number*” prompt.
6. Enter the number/code consisting of up to 4 digits including *** #** and flash (enter **R***, **R#**, **RR** respectively).
7. Dial **#**, wait for the “*The setting is...*” reply.
8. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete numbers and/or codes authorised for each type of traffic:

4. Dial **88 X N** where:
X: table type index
0 = Local Area Code Table
1 = National Area Code Table
2 = International Code Table
N: number/code index 0 - 9
5. Dial *****, wait for the “*Enter programming number*” prompt.
6. Dial **#**, wait for the “*The setting is...*” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To query numbers and/or codes authorised for each type of traffic:

4. Dial **88 X N** where:

- X: table type index
 - 0 = Local Area Code Table
 - 1 = National Area Code Table
 - 2 = International Code Table

N: number/code index 0 - 9

5. Dial #, wait for the “*The setting is...*” reply.
6. Dial * to start a new programming procedure or hang up the handset to end.

The default setting for each position in the table is empty.

Do not include your district are code in the Local Area Code Table. Your district code must be entered as shown in “Your code programming procedure”. Similarly, enter the national identification without the international code in the International Code Number. The international code must be entered as shown in the “International code programming procedure”.

6.2 AUTHORISED COMPANY PROGRAMMING PROCEDURE

This function is used to program the authorised company table, i.e. the telephone companies which can be used to make calls. Up to 6 companies identified by their codes can be entered.

1. Pick up the handset and wait for the dial tone.
2. Dial * main password # and wait for the programming invitation tone.
3. Dial *, wait for the “*Enter programming number*” prompt.

To program authorised companies:

4. Dial 800 N *, wait for the “*Enter setting*” prompt, where:
N = company index (0 - 5)
5. Enter the code consisting of 4 or 5 digits (ex. 10XXX) including * # and flash (enter R*, R#, RR respectively).
6. Dial #, wait for the “*The setting is...*” reply.
7. Dial * to start a new programming procedure or hang up the handset to end.

To delete authorised companies:

4. Dial 800 N *, wait for the “*Enter setting*” prompt, where:
N = company index (0 - 5)
5. Dial #, wait for the “*The setting is...*” reply.
6. Dial * to start a new programming procedure or hang up the handset to end.

To query authorised companies:

4. Dial 800 N #, wait for the “*Enter setting*” prompt, where:
N = company index (0 - 5)
5. Dial * to start a new programming procedure or hang up the handset to end.

The default setting for each position in the table is empty.

6.3 AUTHORISED COMPANY CODE PROGRAMMING PROCEDURE

This function is used to program the telephone company code table needed to restrict calls to certain companies. For example, if a telephone is authorised for calling with a certain company with the restrictions determined by the respective table, it can only be used to dial telephone numbers which start with one of the numbers contained in the table. In other words, each table is a filter for the respective call type. Up to 10 numbers can be configured in each table.

1. Pick up the handset and wait for the dial tone.
2. Dial * main password # and wait for the programming invitation tone.
3. Dial *, wait for the “*Enter programming number*” prompt.

To program numbers and/or codes of authorised telephone companies:

4. Dial 80 N X *, wait for the “*Enter setting*” prompt, where:
N = company index (1 - 6)
X = code index (0 - 9)
5. Enter the number/code consisting of up to 4 digits including * # and flash (enter R*, R#, RR respectively).
6. Dial #, wait for the “*The setting is...*” reply.
7. Dial * to start a new programming procedure or hang up the handset to end.

To delete numbers and/or codes of authorised telephone companies:

4. Dial 80 N X *, wait for the “*Enter setting*” prompt, where:
N = company index (1 - 6)
X = code index (0 - 9)
5. Dial #, wait for the “*The setting is...*” reply.
6. Dial * to start a new programming procedure or hang up the handset to end.

To query numbers and/or codes of authorised telephone companies:

4. Dial 80 N X #, wait for the “*Enter setting*” prompt, where:
N = company index (1 - 6)
X = code index (0 - 9)
5. Dial * to start a new programming procedure or hang up the handset to end.

The default setting for each position in the table is empty.

6.4 TELEPHONE ENABLED CLASSES PROGRAMMING PROCEDURE

This function is used to program the telephone enabled classes, assigning 0 to authorise the options or 1 not to authorise options.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.

To program telephone enabled classes:

4. Dial **401 X ***, wait for the “*Enter setting*” prompt, where:
X = enabled class (0 - 8)
5. Dial A, B, C, D, E, F, G, H, I, L, M, N, where:
A = 0 / 1 inbound calls diverted from an extension off/on
B = 0 / 1 DISA routed calls off/on
C = 0 / 1 broadcast inbound calls off/on
D = 0 / 1 complete local outbound calls off/on
E = 0 / 1 local calls restricted by respective table off/on
F = 0 / 1 complete national outbound calls off/on
G = 0 / 1 national calls restricted by respective table off/on
H = 0 / 1 complete international outbound calls off/on
I = 0 / 1 international calls restricted by respective table off/on
L = 0 / 1 complete outbound calls to telephone companies off/on
M = 0 / 1 calls to telephone companies restricted by respective table off/on
N = 0 / 1 mobile phone outbound calls off/on
6. Dial **#**, wait for the “*The setting is...*” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete the enabled class parameters and restore default settings:

4. Dial **401 X ***, wait for the “*Enter setting*” prompt, where:
X = enabled class (0 - 8)
5. Dial **#**, wait for the “*The setting is...*” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To query telephone enabled classes:

4. Dial **401 X #**, wait for the “*The setting is...*” reply, where:
X = enabled class (0 - 8)
5. Dial ***** to start a new programming procedure or hang up the handset to end.

6.5 DOOR PHONE ENABLED CLASSES PROGRAMMING PROCEDURE

This function is used to program the door phone enabled classes, assigning 0 to authorise the options or 1 not to authorise options.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.

To program door phone enabled classes:

4. Dial **402 X ***, wait for the “*Enter setting*” prompt, where:
X = enabled class (0 - 8)
5. Dial A, B, C, D, E, F, where:
A = 0 / 1 bell 1 voice option on/off
B = 0 / 1 bell 1 ringer option on/off
C = 0 / 1 bell 2 voice option on/off
D = 0 / 1 bell 2 ringer option on/off
E = 0 / 1 bell 3 voice option on/off
F = 0 / 1 bell 3 ringer option on/off
6. Dial **#**, wait for the “*Setting 402 is...*” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete the door phone enabled class parameters and restore default settings:

4. Dial **402 X ***, wait for the “*Enter setting*” prompt, where:
X = enabled class (0 - 8)
5. Dial **#**, wait for the “*The setting is...*” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To query door phone enabled classes:

4. Dial **402 X #**, wait for the “*Enter setting*” prompt, where:
X = enabled class (0 - 8)
5. Dial ***** to start a new programming procedure or hang up the handset to end.

6.6 ASSIGNING AN ENABLED CLASS TO AN EXTENSION

The function is used to assign a telephone and door phone enabled classes.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.

3. Dial *****, wait for the “Enter programming number” prompt.
4. Dial **400 ***, wait for the “Enter the extension”.

To assign an enabled class to an extension:

5. Dial extension *****, wait for the “Enter setting” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022)
6. Dial A, B, C, D, where:
A = day enabled class (0 - 8)
B = night enabled class (0 - 8)
C = day door phone connection enabled class (0 - 8)
D = night door phone connection enabled class (0 - 8)
7. Dial **#**, wait for the “The setting is...” reply.
8. Dial ***** to start a new programming procedure or hang up the handset to end.

To assign an enabled class to an extension and restore the default settings:

5. Dial extension *****, wait for the “Enter setting” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022)
6. Dial **#**, wait for the “The setting is...” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To check an enabled class of an extension:

5. Dial extension **#**, wait for the “Enter setting” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

The default parameter is 8888.

6.7 CALL GROUP PROGRAMMING PROCEDURE

This function is used to define call groups, where a call group consists of a set of extensions which can be addressed via DISA or called by another extension. In particular, the function may be used to program whether an extension belongs to a certain group or not.

1. Pick up the handset and wait for the dial tone.
2. Dial ***** main password **#** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.
4. Dial **690 ***, the system will reply “Enter the extension”.

To include an extension in a call group:

5. Dial extension *****, wait for the “Enter setting” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022)
6. Dial X1, X2, X3, X4, X5, X6, X7, where:
X1 - X7 = 0 if the extension does not belong to group 1 - 7
X1 - X7 = 1 if the extension belongs to group 1 - 7
7. Dial **#**, wait for the “The setting is...” reply.
8. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete inclusion of an extension from a call group and restore factory settings:

5. Dial extension *****, wait for the “Enter setting” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022)
6. Dial **#**, wait for the “The setting is...” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To check inclusion of an extension in a call group:

5. Dial extension **#**, wait for the “Enter setting” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

The default parameter is 0000000.

6.8 EMERGENCY NUMBER PROGRAMMING PROCEDURE

This function is used to program emergency numbers. These numbers may be dialled by any extension, regardless of enableds and the classes to which it belongs.

1. Pick up the handset and wait for the dial tone.
2. Dial ***** main password **#** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To program an emergency number:

4. Dial **896 N ***, wait for the “Enter setting” prompt, where:
N = number index (0 - 9)
5. Dial **NUM #**, wait for the “Enter setting” prompt, where:
NUM = maximum 26-digit number including ***** **#** and flash (Dial **R***, **R#**, **RR** respectively)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete an emergency number:

4. Dial **896 N ***, wait for the “Enter setting” prompt, where:

N = number index (0 - 9)

5. Dial #, wait for the "The setting is..." reply.
6. Dial * to start a new programming procedure or hang up the handset to end.

To check an emergency number:

4. Dial 896 N #, wait for the "Enter setting" prompt, where:
N = number index (0 - 9)
5. Dial * to start a new programming procedure or hang up the handset to end.

Numbers 11, 80 are programmed by default.

6.9 GENERAL BLACK LIST PROGRAMMING PROCEDURE

This function is used to program the general black list numbers for limiting outbound calls from the extensions. For example, the selected extensions will not be able to dial a certain number (or area code) contained in the black list only if the numbers are not present in the emergency numbers table. Up to 10 numbers can be configured in each table. If you use the company code the black list will not work, if you want to block some numbers you need to program the company table with their enabled code.

1. Pick up the handset and wait for the dial tone.
2. Dial * main password # and wait for the programming invitation tone.
3. Dial *, wait for the "Enter programming number" prompt.

To add numbers and/or area codes to the general black list:

4. Dial 859 N*, wait for the "Enter setting", prompt, where:
N = number/area code index (0 - 9)
5. Enter the number/code consisting of up to 20 digits including * # and flash (enter R*, R#, RR respectively).
6. Dial #, wait for the "The setting is..." reply.
7. Dial * to start a new programming procedure or hang up the handset to end.

To delete numbers and/or area codes from the general black list:

4. Dial 859 N *, wait for the "Enter setting", where:
N = area code index (0 - 9)
5. Dial #, wait for the "The setting is..." reply.
6. Dial * to start a new programming procedure or hang up the handset to end.

To check numbers and/or area codes in the general black list:

4. Dial 859 N #, wait for the "Enter setting", prompt, where:
N = area code index (0 - 9)
5. Dial * to start a new programming procedure or hang up the handset to end.

The default setting for each position are shown in the table:

Position	Number	Extension	Block
0	144	All	Blocks the numbers that begin with 144
1	16	All	Blocks the numbers that begin with 16
2	199	All	All Blocks the numbers that begin with 199
3	4	All	Blocks the numbers that begin with 4
4	5	All	Blocks the numbers that begin with 5
5	8	All	Blocks the numbers that begin with 8 but not the number in the emergency number table
6	Empty	All	
7	Empty	All	
8	Empty	All	
9	Empty	All	

Emergency numbers table

Position	Number	Authorisation
0	11	All the emergency numbers begin with 11 for example 112-113-114-115-118
1	80	All the emergency numbers begin with 80X
2	Empty	
3	Empty	
4	Empty	
5	Empty	
6	Empty	
7	Empty	
8	Empty	
9	Empty	

To select emergency numbers you don't need to digit the company code.

The default value for each position of the tables is shown in the previous tables, so, if you don't change the default value it will be not possible to select the numbers 144 – 16 – 199 and the numbers start whit 4, 5, and 8. It will be possible to select the numbers shown in the emergency table numbers and all the numbers not present in the BLACK LIST. If you need to block particular numbers you have to insert them in the BLACK LIST TABLE.

 The **ENABLED COMPANY TABLE** are not blocked by the **BLACK LIST** because they have their **ENABLED CODE TABLE**. So if you use the **ENABLED COMPANY TABLE** you need to insert all the authorised numbers in the **ENABLED CODE TABLE** in way to block all the unauthorised numbers. For example if I use a telephone company it will be possible to digit telephone number that start with 0 only if in the **ENABLED CODE TABLE** I have inserted the 0, at the same time it'll be not possible to select numbers that star with 1, 2, 3, 4, 5, 6, 7, 8, 9. If in the **ENABLED CODE TABLE** there isn't any numbers it'll be possible to select any numbers. The default **ENABLED CODE TABLE** is empty and all the telephone are in class number 8, so they can do any selection if you digit the company code.

 All the numbers in the tables are inserted for the Italian market, so in order to use black list table and enabled company table you need to delete the default numbers and insert the numbers of your country.

6.10 ASSIGNING THE GENERAL BLACK LIST TO EXTENSIONS PROGRAMMING PROCEDURE

This function is used to program the extensions which are subject to the restrictions imposed by the general black list.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the "Enter programming number" prompt.

To assign an extension to the general black list table:

4. Dial **861 N***, wait for the "Enter setting", prompt, where:
N = number/area code index (0 - 9)
6. Dial X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12 where:
X1 - X12 = 0 if the extension is not subject to general black list restrictions
X1 - X12 = 1 if the extension is subject to general black list restrictions
7. Dial **#**, wait for the "The setting is..." reply.
8. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete numbers and/or area codes from the general black list:

4. Dial **861 N ***, wait for the "Enter setting", where:
N = area code index (0 - 9)
5. Dial **#**, wait for the "The setting is..." reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check numbers and/or area codes in the general black list:

4. Dial **861 N #**, wait for the "Enter setting", where:
N = area code index (0 - 9)
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting for each position in the table is 111111111111.

6.11 LINE BLACK LIST PROGRAMMING PROCEDURE

This function is used to program the black list numbers specific to each line for limiting outbound calls. For example, the no extensions will not be able to dial a certain number (or area code) contained in the black list on the line. Up to 10 numbers can be configured in each table.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the "Enter programming number" prompt.

To add numbers and/or area codes to the line black list:

4. Dial **84 T N***, wait for the "Enter setting", where:
T = line index (1 - 3)
N = number/area code index (0 - 9)
5. Enter the number/code consisting of up to 20 digits including *** #** and flash (enter **R***, **R#**, **RR** respectively).
6. Dial **#**, wait for the "The setting is..." reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete numbers and/or area codes to the line black list:

4. Dial **84 T N ***, wait for the "Enter setting", prompt, where:
T = line index (1 - 3)
N = area code index (0 - 9)
5. Dial **#**, wait for the "The setting is..." reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check numbers and/or area codes to the line black list:

4. Dial **84 T N #**, wait for the "Enter setting", prompt, where:
T = line index (1 - 3)
N = area code index (0 - 9)
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting for each position in the table is empty.

Line 1 Black list table		
Position	Number	Block
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		

Line 2 Black list table		
Position	Number	Block
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		

Line 3 Black list table		
Position	Number	Block
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		

6.12 BLACK LIST ACTIVATION PROCEDURE

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “Enter programming number” prompt.

To activate the general and line black lists:

4. Dial **872 *** , wait for the “Enter setting” prompt.
5. Dial **1 #** , wait for the “The setting is...” reply.
6. Hang up.

To deactivate the general and line black lists:

4. Dial **872 *** , wait for the “Enter setting” prompt.
5. Dial **0 #** , wait for the “The setting is...” reply.
6. Hang up.

To check general and line black list activation:

4. Dial **872 #** , wait for the “The setting is...” reply.
5. Hang up.

The default setting is 0 then the table is not active.

6.13 FAX RECOGNITION PROGRAMMING PROCEDURE

This function is used to program the fax recognition table numbers. This function is used to route calls from the numbers in this table directly to the extension configured as fax. The CLI service must be active to use this function. Up to 10 numbers can be configured in each table.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “Enter programming number” prompt.

To program the fax recognition table:

4. Dial **898 N*** , wait for the “Enter setting” prompt, where:
N = number index (0 - 9)
5. Enter the number consisting of up to 26 digits including *** #** and flash (dial **R*** , **R#** , **RR** respectively).
6. Dial **#** , wait for the “The setting is...” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete the fax recognition table:

4. Dial **898 N ***, wait for the “Enter setting” prompt, where:
N = number index (0 - 9)
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check the numbers and/or areas codes in the fax recognition table:

4. Dial **898 N #**, wait for the “Enter setting”, where:
N = number index (0 - 9)
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting for each position in the table is empty.

6.14 FAX RECOGNITION ACTIVATION PROCEDURE

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To activate the fax recognition table:

4. Dial **871 ***, wait for the “Enter setting” prompt.
5. Dial **1 #**, wait for the “The setting is...” reply.
6. Hang up.

To deactivate the fax recognition table:

4. Dial **871 ***, wait for the “Enter setting” prompt.
5. Dial **0 #**, wait for the “The setting is...” reply.
6. Hang up.

To check activation of the fax recognition table:

4. Dial **871 #**, wait for the “The setting is...” reply.
5. Hang up.

The default setting is 0.

6.15 RELAY REMOTE OPERATION TABLE PROGRAMMING PROCEDURE

This function is used to program the relay remote operation numbers. The recognised calls (CLI function) from numbers included in this table may remotely operate the relays present on the switchboard without use of a password. Up to 10 numbers can be configured in each table.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To program the remote relay operation table:

4. Dial **897 N***, wait for the “Enter setting” prompt, where:
N = number index (0 - 9)
5. Enter the number consisting of up to 26 digits including *** #** and flash (dial **R***, **R#**, **RR** respectively).
6. Dial **#**, wait for the “The setting is...” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete the remote relay operation table:

4. Dial **897 N ***, wait for the “Enter setting” prompt, where:
N = number index (0 - 9)
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check the numbers and/or areas codes in the remote relay operation table:

4. Dial **897 N #**, wait for the “Enter setting” prompt, where:
N = number index (0 - 9)
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting for each position in the table is empty.

6.16 RELAY REMOTE OPERATION TABLE ACTIVATION PROCEDURE

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To activate the remote relay operation table:

4. Dial **870 ***, wait for the “Enter setting” prompt.
5. Dial **1 #**, wait for the “The setting is...” reply.
6. Hang up.

To deactivate the remote relay operation table:

4. Dial **870 ***, wait for the “Enter setting” prompt.
5. Dial **0 #**, wait for the “The setting is...” reply.
6. Hang up.

To check activation of the remote relay operation table:

4. Dial **870 #**, wait for the “The setting is...” reply.
5. Hang up.

The default setting is 0.

6.17 PROGRAMMING OF TELEPHONE NUMBERS TABLE FOR RELAY ACTIVATION

This function allows to set the numbers enabled to activate the ATT1 relay present on the base, when a call is received from the programmed number (see section 4.1).

To program an enabled number:

1. Pick up the handset and wait for the dial tone.
2. Enter *** main password #** and wait for the programming tone.
3. Dial *****, the system answers “Enter the programming item number”.
4. Dial **711 N ***, the system answers “Enter the programming value”, where:
N = number index (0 ÷ 9)
5. Dial **NUM #**, the system answers “The programming value ...”, where:
NUM = number with 26 digits max.
6. Dial ***** to start another programming session or hang up to end.

To delete an enabled number:

1. Pick up the handset and wait for the dial tone.
2. Enter *** main password #** and wait for the programming tone.
3. Dial *****, the system answers “Enter the programming item number”.
4. Dial **711 N ***, the system answers “Enter the programming value”, where:
N = number index (0 ÷ 9)
5. Dial **#**, the system answers “The programming value ...”
6. Dial ***** to start another programming session or hang up to end.

To verify an enabled number:

1. Pick up the handset and wait for the dial tone.
2. Enter *** main password #** and wait for the programming tone.
3. Dial *****, the system answers “Enter the programming item number”.
4. Dial **711 N #**, the system answers “The programming value ...”, where:
N = number index (0 ÷ 9)
5. Dial ***** to start another programming session or hang up to end.

The default value for each table item is empty.



If the feature is used with a Domus Cell GSM gateway, connected to the trunk line, before the number it is necessary to enter the access code used for international calls (for Italy 00), followed by the international country code (for Italy 39).

7 DISA PROGRAMMING PROCEDURES

7.1 RECORDING TO THE DISA MESSAGE

This function is used to record DISA messages. The following default message is provided: “Please wait or dial the required extension”. Up to two further customised messages can be recorded.

To record a new message:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.
4. Dial **300 * N** where:
N = message index 1 - 2
5. Dial *****, wait for the “Record your message...” followed by a tone.
6. Record the new message (up to 15 seconds).
7. Dial **R** to end the recording.
8. Dial ***** to start a new programming procedure or hang up the handset to end.

7.2 LISTENING TO THE DISA MESSAGE

This function is used to listed to the recorded messages.

To listen to a DISA recorded message:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.

3. Dial *****, wait for the “Enter programming number” prompt.
4. Dial **300 * N** where:
N = message index 1 - 4 (1-2 for messages recorded via telephone, 3 for message recorded via PC, 4 for default message)
5. Dial **#** and wait for the required message.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

The default parameter is empty.



If an extension is configured as a fax terminal, the sequence “To send a fax, dial X” will be added to the message.

7.3 LINE DISA MESSAGE PROGRAMMING PROCEDURE

This function is used to associate a sequence of two DISA messages to a line (either the default message or a customised, recorded message).

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To program the DISA message sequence for a line or base interface:

4. Dial **31 T X ***, wait for the “Enter setting” prompt, where:
T = 1 ÷ 3 for line 1 ÷ 3
X = 0 DISA weekday (from Monday to Friday)
X = 1 DISA week night (from Monday to Friday)
X = 2 DISA Saturday and Sunday (24 hours)
X = 3 DISA Wildcard
5. Dial **NN**, where NN is the sequence of two messages for forming the DISA message to be channelled to the line:
N = 0 No message
N = 1 - 2 Message 1 - 2
N = 3 Default message
N = 4 PC message
6. Dial **#**, wait for the “The setting is...” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete a DISA message sequence for a line or base interface and restore default settings:

4. Dial **31 T X ***, wait for the “Enter setting” prompt, where:
T = 1 ÷ 3 for line 1 ÷ 3
X = 0 DISA weekday (from Monday to Friday)
X = 1 DISA week night (from Monday to Friday)
X = 2 DISA Saturday and Sunday (24 hours)
X = 3 DISA Wildcard
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check the DISA message sequence for a line or base interface:

4. Dial **31 T X #**, wait for the “The setting is...” reply, where:
T = 1 ÷ 3 for line 1 ÷ 3
X = 0 DISA weekday (from Monday to Friday)
X = 1 DISA week night (from Monday to Friday)
X = 2 DISA Saturday and Sunday (24 hours)
X = 3 DISA Wildcard
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 30 (message sequence is “Default-None”).

7.4 WILDCARD DISA MESSAGE PROGRAMMING PROCEDURE

This function may be used to override a so-called ‘wildcard’ message for DISA functions which applies to all days of the week, regardless of day, night, weekday, holiday programming.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To activate/deactivate the wildcard DISA message:

4. Dial **32 T ***, wait for the “Enter setting” prompt, where:
T = 1 ÷ 3 for line 1 ÷ 3
5. Dial **0** or **1** to deactivate/activate.
6. Dial **#**, wait for the “The setting is...” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete wildcard DISA activation/deactivation and restore factory settings:

4. Dial **32 T ***, wait for the “Enter setting”, where:
T = 1 ÷ 3 for line 1 ÷ 3
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check wildcard DISA message activation/deactivation:

4. Dial **32 T #**, wait for the “Enter setting” prompt, where:
T = 1 ÷ 3 for line 1 ÷ 3
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 0.

7.5 DISA REPLY RING PROGRAMMING PROCEDURE

This function is used to program the number of rings before DISA reply.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To program number of DISA reply rings:

4. Dial **33 T ***, wait for the “Enter setting” prompt, where:
T = 1 ÷ 3 for line 1 ÷ 3
5. Dial **X**, where:
X = 1 - 5 DISA after 1st-5th ring
6. Dial **#**, wait for the “The setting is...” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete number of DISA reply rings and restore default settings:

4. Dial **33 T ***, wait for the “Enter setting” prompt, where:
T = 1 ÷ 3 for line 1 ÷ 3
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check number of DISA reply rings:

4. Dial **33 T #**, wait for the “Enter setting” prompt, where:
T = 1 ÷ 3 for line 1 ÷ 3
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 2.

 The CLI function will not be possible if reply after first ring (X=1) is programmed.

8 EXTENSION FUNCTION PROGRAMMING PROCEDURES**8.1 OPERATOR PROGRAMMING PROCEDURE**

This function is used to program an extension or a group as operator’s station. The operator’s station will receive all inbound calls not routed to a specific extension and all routed calls which are not replied before the timeout (Timer 1).

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To program the operator’s station:

4. Dial **630 ***, wait for the “Enter the extension”.
5. Dial extension **#**, wait for the “Enter setting” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022), or group (731 ÷ 737)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete the operator’s station programmed:

4. Dial **630 ***, wait for the “Enter the extension”.
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To verify the operator’s station programmed:

4. Dial **630 #**, wait for the “The setting is...” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is empty.

8.2 ANSWERING MACHINE PROGRAMMING PROCEDURE

This function is used to define where an external answering machine is connected.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To program an extension as answering machine:

4. Dial **640 ***, wait for the “*Enter the extension*”.
5. Dial **extension #**, wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete programming:

4. Dial **640 ***, wait for the “*Enter the extension*”.
5. Dial **#**, wait for the “*The setting is...*” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check programming:

4. Dial **640 #**, wait for the “*The setting is...*” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is empty.

8.3 VOICEMAIL MESSAGE TELEPHONE NUMBER PROGRAMMING PROCEDURE

This function is used to define a telephone number (landline or mobile) were to send a message when voicemail is received. See par. 3.11 for service activation.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.

To program a telephone number to call when voicemail is recorded:

4. Dial **571 ***, wait for the “*Enter setting*” prompt.
5. Dial **NUM #**, wait for the “*Enter setting*” prompt, where:
NUM = maximum 26-digit number including *** #** and flash (Dial **R***, **R#**, **RR** respectively)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete programming:

4. Dial **571 ***, wait for the “*Enter setting*” prompt.
5. Dial **#**, wait for the “*The setting is...*” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check programming:

4. Dial **571 #**, wait for the “*The setting is...*” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is empty.

8.4 FAX/MODEM PROGRAMMING PROCEDURE

This function is used to define where to route calls from a fax or modem. Recognition function must be enabled to receive calls from a fax or modem (see Programming par. 4.1).

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.

To program an extension as fax/modem:

4. Dial **650 ***, the system will reply “*Enter the extension*”.
5. Dial **extension #**, wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete programming:

4. Dial **650 ***, the system will reply “*Enter the extension*”.
5. Dial **#**, wait for the “*The setting is...*” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check programming:

4. Dial **650 #**, wait for the “*The setting is...*” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is empty.

8.5 PRINTER BUFFER 80% FULL WARNING PROGRAMMING PROCEDURE

This function is used to define which extension to call when the telephone traffic buffer is 80% full. In this case, it is advisable to print out the telephone traffic forms and clear the buffer. The extension enabled to receive the buffer full message will also be call to check the clock following a power blackout lasting for longer than 48 hours.

Telephone buffer message: "Telephone buffer full". Clock message: "Check clock."

To program the extension:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the "Enter programming number" prompt.
4. Dial **632 ***, wait for the "Enter the extension".
5. Dial **extension #**, wait for the "Enter setting" prompt, where:
Extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.



Extension 41 is called by default.

if, after picking up the handset, is heard the message "Check clock select hash 6 5 0", it is necessary to hang up the handset, pick up it again and enter # 6 5 0, otherwise the message will be repeated each hour.

8.6 DOOR UNIT PROGRAMMING PROCEDURE

This function allows to program 3 extensions as an outdoor (for example 'Combiphone outdoor' Ref. 1145/1 1145/2). The three extension configured in this way will respectively assume the functions of the three door phone stations. The door unit must be programmed to call the extension to which it is connected and configured (e.g. 48).

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the "Enter programming number" prompt.

To program an extension as door unit:

4. Dial **68X ***, wait for the "the system will reply "Enter the extension", where:
X = 1 ÷ 3 for door unit index 1 ÷ 3.
5. Dial **extension #**, wait for the "Enter setting" prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete an extension programmed as door unit station:

4. Dial **68X ***, the system will reply "Enter the extension", where:
X = 1 ÷ 3 for door unit index 1 ÷ 3.
5. Dial **#**, wait for the "The setting is..." reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check an extension programmed as door unit station:

4. Dial **68X #**, wait for the "Enter setting" prompt, where:
X = 1 ÷ 3 for door unit index 1 ÷ 3.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is empty.



Using an extension programmed as outdoor it's not possibile to use doorphone interfaces. You can use Combiphone outdoor with doorphone interfaces only without programming it on the PABX.

9 CALL MANAGEMENT

9.1 CALL DIVERT VIA OTHER EXTERNAL LINE

This function may be used to divert external calls not routed to a single extension after the fifth ring to a previously programmed external number on another telephone line. The switchboard will automatically dial the programmed telephone number and connects the two lines. A warning tone will be heard when the service is on. This connection time can be programmed (see par. 12.6) and can be extended by pressing any button during the last 10 seconds of connection (a tone will be heard).

At least two external lines are needed for this service.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the "Enter programming number" prompt.

To program the call divert number:

4. Dial **541 ***, wait for the "Enter setting" prompt.
5. Dial **NUM #**, wait for the "Enter setting" prompt, where:
NUM = maximum 26-digit number including *** #** and flash (Dial **R***, **R#**, **RR** respectively)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete the call divert number:

4. Dial **541 ***, wait for the "Enter setting" prompt.
5. Dial **#**, wait for the "The setting is..." reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check the call divert number:

4. Dial **541 #**, wait for the “*The setting is...*” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting for parameter 541 is empty.

9.2 PROGRAMMING THE NUMBER OF RINGS BEFORE DIVERTING A CALL ON PRIVATE LINE

With this setting you can choose the number of internal rings before activating the feature of call diverting trunk.

To program the feature

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “*Enter programming number*” prompt.

To select the desired number of rings:

4. Dial **780 *** , wait for the “*Enter setting*” prompt.
5. Dial **X #**, where X defines the number of rings (from 0 to 9) that will be delivered to the internal extensions before the features will be enabled, the system answers “*the setting is...*”.
6. Hang up the handset.

To restore the default setting:

4. Dial **780 *** , wait for the “*Enter setting*” prompt.
5. Dial **#**, wait for the “*The setting is...*” reply.
6. Hang up the handset.

To verify the parameter value:

4. Dial **780 #**, wait for the “*The setting is...*” reply.
5. Hang up the handset.

The default setting for this parameter is 5 then the call diverting works in standard mode and starts after the fifth ring.



ATTENTION if you set the number of rings to zero there will be no rings on internal extension and the caller's CLI will not be recorded in the PABX's log of calls. If the rings are set to 0, the DISA and the automatic operator does not work, even if they are enabled. (See paragraph “*Programming the door phone code table*”).

9.3 REPLY ON ABSENCE

This function is used to program an extension for the “reply on absence” function by dialling 38.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “*Enter programming number*” prompt.

To program an extension for reply on absence function:

4. Dial **430 *** , the system will reply “*Enter the extension*”.
5. Dial **extension *** , wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial **A, B, C**, where:
A = 0 / 1: Line 0 off/on
B = 0 / 1: Line 1 off/on
C = 0 / 1: Line 2 off/on
7. Dial **#**, wait for the “*The setting is...*” reply.
8. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete an extension for reply on absence function:

4. Dial **430 *** , the system will reply “*Enter the extension*”.
5. Dial **extension *** , wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial **#**, wait for the “*The setting is...*” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To check an extension for reply on absence function:

4. Dial **430 *** , the system will reply “*Enter the extension*”.
5. Dial **extension *** , wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 111.

9.4 HOT LINE

This function is used to automatically call a programmed number simply by picking up the handset if no actions are taken within 30 seconds. The hot line may be external number, an extension number or a service number.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “*Enter programming number*” prompt.

To program a hot line number:

4. Dial **560 ***, wait for the “*Enter setting*” prompt.
5. Enter the number to be called according to the type. Wait for the “*The setting is...*” message.
 - 5a. to enter an external number, dial **L, N**, where:

L	external line where to forward the call
80	for any available private line
0	for any available line
81 ÷ 83	for line 1 ÷ 3
N	telephone number, including * # and flash (Dial R* , R# , RR respectively) considering that the total length of the sequence must be no more than 26 digits.
 - 5b. to enter and extension number, dial **X**, where:

X	extension number 41 ÷ 52 for extensions 1 ÷ 12
----------	--
- 5c. to enter a service number, enter the code, e.g. 551 or 550 to operate relay 1
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete a hot line number:

4. Dial **560 ***, wait for the “*Enter setting*” prompt.
5. Dial **#**, wait for the “*The setting is...*” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check a hot line number:

4. Dial **560 #**, wait for the “*The setting is...*” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is empty.

9.5 EXTERNAL DIVERT

This function is used to divert external calls routed to an extension (DISA) to a previously programmed external number using another telephone line. At least two external lines are needed for this service.

The switchboard automatically selects the programmed telephone number and connects the two lines together. A tone indicates that the service is active.

This connection lasts is programmable (see par. 11.6) and can be extended by pressing any DTMF during the last 10 seconds of connection (a tone will be heard).

A specific number can be programmed for each extension.

1. Pick up the handset and wait for the dial tone.
2. Dial *** secondary password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.

To program an external divert number:

4. Dial **551 ***, the system will reply “*Enter the extension*”.
5. Dial **extension ***, wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial **NUM #**, wait for the “*Enter setting*” prompt, where:
NUM = maximum 26-digit number including *** #** and flash (Dial **R***, **R#**, **RR** respectively).
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete an external divert number:

4. Dial **551 ***, the system will reply “*Enter the extension*”.
5. Dial **extension ***, wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial **#**, wait for the “*The setting is...*” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To check an external divert number:

4. Dial **551 ***, wait for the system will reply “*Enter the extension*”.
5. Dial **extension #**, wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting for parameter 551 is empty.

9.6 NIGHT SERVICE

This function is used to program day/night configurations and activation methods. There are three ways to switch from day service to night service and vice versa: manual by means of external switch, manual by means of controls (programmable or short codes), automatic timed.

Night service includes the following functions:

- Defining automatic service time
- Defining service activation method
- Service activation by means of short code
- Service activation/deactivation
- Cancelling activation/deactivation
- Checking activation/deactivation

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To define automatic service time:

4. Dial **762 X**, where:
X = 0: time setting from Monday to Friday
X = 1: time setting Saturday and Sunday
5. Dial *****, wait for the “Enter programming number” prompt.
6. Dial Start/End, where:
Start = Automatic night service on time (hhmm)
End = Automatic night service off time (hhmm)
7. Dial **#**, wait for the “The setting is...” reply.
8. Hang up.

To define service activation method:

4. Dial **760 ***, wait for the “Enter setting” prompt.
5. Dial **X**, where:
X = 0 Manual by means of external switch
X = 1 Manual
X = 2 Automatic timed
6. Dial **#**, wait for the “The setting is...” reply.
7. Hang up.

To activate service by means of short code:

4. Dial **763 ***, wait for the “Enter setting” prompt.
5. Dial **1 #**, wait for the “The setting is...” reply.
6. Hang up.

To deactivate service by means of short code:

4. Dial **763 ***, wait for the “Enter setting” prompt.
5. Dial **0 #**, wait for the “The setting is...” reply.
6. Hang up.

The default setting of parameter 760 is 1.

The default of parameter 762N is empty. The default setting of parameter 763 is 1.

Refer to the respective paragraph in the Instruction section for querying and switching night service on and off.

9.7 DOOR PHONE FOLLOW-ME

This function is used to divert door phone calls to an external telephone number.

The functions includes:

- Programming the station where to activate the service (bell 1/2/3).
- Programming the telephone number where to divert the door phone call.

1. Pick up the handset and wait for the dial tone.
2. Dial *** secondary password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To program the door phone station where to activate the service:

4. Dial **582 ***, wait for the “Enter setting” prompt.
5. Dial **C #**, wait for the “Enter setting” prompt, where:
C = 1 / 2 / 3 for bell 1 / 2 / 3
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete programming:

4. Dial **582 ***, wait for the “Enter setting” prompt.
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check programming:

4. Dial **582 #**, wait for the “The setting is...” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

To program the telephone number where to divert the door phone call:

4. Dial **581 ***, wait for the “Enter setting” prompt.
5. Dial **NUM #**, wait for the “Enter setting” prompt, where:
NUM = maximum 26-digit number including *** #** and flash (Dial **R***, **R#**, **RR** respectively)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete programming:

4. Dial **581 ***, wait for the “Enter setting” prompt.
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check programming:

4. Dial **581 #**, wait for the “*The setting is...*” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting for parameter 581 is empty. The default setting for parameter 582 is 1.

9.8 DOOR PHONE FOLLOW-ME MESSAGE

The switchboard may channel a “Please wait” message to the door unit when the follow-me service is active. This function is used to activate/deactivate the message.

To activate/deactivate the message:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “*Enter programming number*” prompt.
4. Dial **583 *** , wait for the “*Enter setting*” prompt.
5. Dial **X #**, wait for the “*Enter setting*” prompt, where:
X = 0 Message off
X = 1 Message on
6. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 0.

9.9 ON-HOLD MUSIC

The switchboard may channel to a local line an internally generated on-hold music and announcement which are repeated cyclically. The announcement and the music may be changed or recorded by the user (wav and mp3 format, 15 s max.).

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “*Enter programming number*” prompt.

To select the music:

4. Dial **340 *** , wait for the “*Enter setting*” prompt.
5. Dial **X #**, where:
X = 0 to switch off on-hold music and voice message
X = 1 to switch on default on-hold music and/or message
X = 2 to switch on music and voice announcement from PC
X = 3 to switch on external music
X = 4 to switch on music and voice announcement from telephone
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To cancel the selection and stored default settings:

4. Dial **340 *** , wait for the “*Enter setting*” prompt.
5. Dial **#**.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check programming:

4. Dial **340 #**.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 1.

9.10 RECORDING ON-HOLD MUSIC FROM TELEPHONE

This function may be used to record on-hold music from the telephone.

To record on-hold music:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “*Enter programming number*” prompt.
4. Dial **341 * 0 *** .
5. Wait for the “*Record your music...*” message followed by a tone..
6. Record the music (up to 15 seconds).
7. Dial **R** to end the recording.
8. Dial ***** to start a new programming procedure or hang up the handset to end.

9.11 LISTENING TO ON-HOLD MUSIC

This function may be used to listen to the selected on-hold music.

To listen to on-hold music:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “*Enter programming number*” prompt.

4. Dial 341 * N where:
N = 0 (music recorded from telephone), 1 (music from PC), 2 (default music)
5. Dial # and wait for the required music to be played.
6. Dial * to start a new programming procedure or hang up the handset to end.

9.12 SEQUENTIAL INCOMING CALL

The function makes one or more extensions ring in sequence (3 Steps max.) for a given number of rings (from 1 to 5), different for every Step. For example, the extension lines 41 and 45 can ring four times (first Step), then the call is forwarded to the extension line 42 and 51 for 3 rings (second Step) and then all the extension ring for 5 times (third Step); after the third Step, the call goes back to the first.

If an extension included in the sequence is busy or in "Do not disturb" mode, and it is the only programmed for that Step, the procedure goes to the next Step. If there are other telephones, only the free ones programmed in that Step ring. If the "Follow me" function is active on an extension, the programmed diversion is performed.

With DISA active:

If the feature is active with the DISA, the Steps from 1 to 3 indicated in the programming will be performed only one time in sequence and then the line will be released.

9.12.1 EXTENSIONS PROGRAMMING FOR SEQUENTIAL INCOMING CALL

For each line it is possible to program different Steps for day and night; 3 Steps max. can be programmed. For each Step, is indicated which extension must ring and the rings number.

To program the extensions of the sequences:

1. Pick up the handset and wait for the dial tone.
2. Enter * main password # and wait for the programming tone.
3. Dial *, the system answers "Enter the programming item number".
4. Dial 81 X N *, the system answers "Enter the number", where:
X = 1 ÷ 3 for line (1 ÷ 3)
N = day / night (0 ÷ 1)
5. Dial S *, the system answers "Enter the programming value", where:
S = 1 ÷ 3 Step
6. Enter in sequence X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12 where:
X1 ÷ X12= 0 if the extension must not ring (X1 ÷ X12 represent the 12 extension lines that can be present in the system)
X1 ÷ X12= 1 if the extension must ring
7. Dial #, the system answers "The programming value ...".
8. Dial * to start another programming session or hang up to end.

To delete the extensions of the sequences:

1. Pick up the handset and wait for the dial tone.
2. Enter * main password # and wait for the programming tone.
3. Dial *, the system answers "Enter the programming item number".
4. Dial 81 X N *, the system answers "Enter the number", where:
X = 1 ÷ 3 for line (1 ÷ 3)
N = day / night (0 ÷ 1)
5. Dial S *, the system answers "Enter the programming value", where:
S = 1 ÷ 3 Step
6. Dial #, the system answers "The programming value ...".
7. Dial * to start another programming session or hang up to end.

To verify the extensions of the sequences:

1. Pick the handset up and wait for the dial tone.
2. Enter * main password # and wait for the programming tone.
3. Dial *, the system answers "Enter the programming item number".
4. Dial 81 X N *, the system answers "Enter the number", where:
X = 1 ÷ 3 for line (1 ÷ 3)
N = day / night (0 ÷ 1)
5. Dial S #, the system answers "The programming value ...".
6. Dial * to start another programming session or hang up to end.

By default no extension line is assigned.

9.12.2 RINGS PROGRAMMING FOR SEQUENTIAL INCOMING CALL

For each step it is possible to program a different number of rings, from 0, step excluded, to 5 max.

To program rings of the sequences:

1. Pick up the handset and wait for the dial tone.
2. Enter * main password # and wait for the programming tone.
3. Dial *, the system answers "Enter the programming item number".
4. Dial 82 X N *, the system answers "Enter the number", where:
X = 1 ÷ 3 for line (1 ÷ 3)
N = day / night (0 ÷ 1)

- Dial S *, the system answers "Enter the programming value", where:
S = 1 ÷ 3 Step
- Dial R #, the system answers "The programming value ...", where:
R = 0 ÷ 5 rings (0 = step excluded)
- Dial * to start another programming session or hang up to end.

To delete rings of the sequences:

- Pick up the handset and wait for the dial tone.
- Enter * main password # and wait for the programming tone.
- Dial *, the system answers "Enter the programming item number".
- Dial 82 X N *, the system answers "Enter the number", where:
X = 1 ÷ 3 for line (1 ÷ 3)
N = day / night (0 ÷ 1)
- Dial S *, the system answers "Enter the programming value", where:
S = 1 ÷ 3 Step
- Dial #, the system answers "The programming value ..."
- Dial * to start another programming session or hang up to end.

To verify rings of the sequences:

- Pick up the handset and wait for the dial tone.
- Enter * main password # and wait for the programming tone.
- Dial *, the system answers "Enter the programming item number".
- Dial 82 X N *, the system answers "Enter the number", where:
X = 1 ÷ 3 for line (1 ÷ 3)
N = day / night (0 ÷ 1)
- Dial S #, the system answers "The programming value ...".
- Dial * to start another programming session or hang up to end.

By default all the steps are set to 0.

10 ACTUATOR PARAMETER PROGRAMMING PROCEDURES

10.1 ACTUATOR RELAY OPERATING MODE PROGRAMMING PROCEDURE

This function is used to program base relay (relay 1) and actuator relay 4 function mode for 4+N and 1+N door phone interfaces. In particular, the on-board relay (relay 1) may mode in stabile mode i.e. actuated following a command or timed for 800 or 1600ms; relay 4 on 4+N door phone boards may work in the two ways described for relay 1 and as timed door opener.

- Pick up the handset and wait for the dial tone.
- Dial * main password # and wait for the programming invitation tone.
- Dial *, wait for the "Enter programming number" prompt.

To set relay operation:

- Dial 46N *, where:
N = 1,4 respectively relay 1,4; wait for the "Enter programming number" message.
- Dial X #, where:
X = 1 to set stabile operating mode
X = 2 to set timing operating mode
X = 3 to set door opener operating mode
- Dial * to start a new programming procedure or hang up the handset to end.

To cancel relay operation:

- Dial 46N *, where:
N = 1,4 respectively relay 1,4; wait for the "Enter programming number" message.
- Dial #, wait for the "The setting is..." reply.
- Dial * to start a new programming procedure or hang up the handset to end.

To check relay operation:

- Dial 46N #, where:
N = 1,4 wait for the "Enter programming number" message.
- Dial * to start a new programming procedure or hang up the handset to end.

The default setting is 1.

10.2 ACTUATOR RELAY TIMER PROGRAMMING PROCEDURE

This function is used to set actuator relay opening timing.

- Pick up the handset and wait for the dial tone.
- Dial * main password # and wait for the programming invitation tone.
- Dial *, wait for the "Enter programming number" prompt.

To set actuator relay opening timing:

- Dial 47N *, where:
N = 2,4 respectively relay 2,4; wait for the "Enter programming number" message.

5. Dial **X #**, where:
X = 1-9 to set timing from 1 to 9 seconds
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To cancel relay operation:

4. Dial **47N *** , where:
N = 2,4 respectively relay 2.4; wait for the “Enter programming number” message.
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check relay operation:

4. Dial **47N #**, where:
N = 2,4 respectively relay 2.4; wait for the “Enter programming number” message.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 1.

11 TRAFFIC PARAMETER PROGRAMMING PROCEDURE

11.1 YOUR DISTRICT AREA CODE PROGRAMMING PROCEDURE

This function is used to program your district area code.

The parameter is used to discriminate between local and national calls and consequently use enabled class and LCR functions.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “Enter programming number” prompt.

To program your district area code:

4. Dial **350 *** , wait for the “Enter setting” prompt.
5. Dial **NUM #**, wait for the “Enter setting” prompt, where:
NUM = maximum 4-digit number including *** #** and flash (Dial **R*** , **R#**, **RR** respectively)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete your district area code:

4. Dial **350 *** , wait for the “Enter setting” prompt.
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check your district area code:

4. Dial **350 #**, wait for the “The setting is...” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is empty.

11.2 INTERNATIONAL CODE PROGRAMMING PROCEDURE

This function is used to set the internal call code.

The parameter is used to discriminate between national and international calls and consequently use enabled class and LCR functions.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “Enter programming number” prompt.

To program the international code:

4. Dial **351 *** , wait for the “Enter setting” prompt.
5. Dial **NUM #**, wait for the “Enter setting” prompt., where:
NUM = maximum 4-digit number including *** #** and flash (Dial **R*** , **R#**, **RR** respectively)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete your district area code:

4. Dial **351 *** , wait for the “Enter setting” prompt.
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check your district area code:

4. Dial **351 #**, wait for the “The setting is...” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 00.

11.3 DOOR PHONE CALL TIME

This function is used to define the maximum door phone call time.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To program the door phone call time:

4. Dial **490 ***, wait for the “Enter setting” prompt.
5. Dial **X #**, wait for the “Enter setting” prompt., where:
X = call time in seconds (0 - 60)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete door phone call time and restore default settings:

4. Dial **490 ***, wait for the “Enter setting” prompt.
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check door phone call time and restore default settings:

4. Dial **490 #**, wait for the “The setting is...” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default door phone call time is 10 seconds.

11.4 PARK TIMER

This function is used to define the maximum time for which a call can be parked.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To program the park time:

4. Dial **610 ***, wait for the “Enter setting” prompt.
5. Dial **X #**, wait for the “Enter setting” prompt, where:
X = timer in seconds up to 3 digits from 0 to 300
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete park time programming and restore the default settings:

4. Dial **610 ***, wait for the “Enter setting” prompt.
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check the park time:

4. Dial **610 #**, wait for the “The setting is...” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 90.

11.5 DIVERT TIMER

This function is used to program two timers:

The timer1 and the timer 2 are used when the DISA message is active

The timer 1 is used also when the DISA is not active, but there is the Operator Station.

Operating mode

Timer1 when the DISA is enabled: time after which an external call, directed to an extension, is diverted to the Operator Station or to all extensions.

Timer1 when the DISA is disabled and there is the Operator Station: time after which an external call is diverted by the Operator Station to all extensions enabled to receive it.

Timer2: time after which the call diverted to the Operator Station or to all extensions, is closed.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To program the timers:

4. Dial **62X** where:
X is 0 for Timer1 and 1 for Timer2 followed by *****; wait for the “Enter programming number” message.
5. Dial **T #**, wait for the “Enter setting” prompt, where:
T = timer in seconds up to 2 digits from 1 to 99
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete timers and restore the default settings:

4. Dial **62X** where:
X is 0 for Timer1 and 1 for Timer2 followed by *****; wait for the "Enter programming number" message.
5. Dial **#**, wait for the "The setting is..." reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check the timers:

4. Dial **62X** where:
X is 0 for Timer1 and 1 for Timer2 followed by **#**; wait for the "Enter programming number" message.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting for parameter 620 is 25 seconds. The default setting for parameter 621 is 25 seconds.

11.6 EXTERNAL LINE CALL TIMER

This function is used to program the call time for the following functions: remote room monitor, external divert, call divert, remote paging, DOSA, call-back, door phone follow-me. Press a DTMF during the last ten seconds of the call (when you hear the tone) to extend the call for as long as this setting.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the "Enter programming number" prompt.

To program the timer:

4. Dial **663 ***, wait for the "Enter setting" prompt.
5. Dial **X #**, wait for the "Enter setting" prompt, where:
X = timer in seconds up to 2 digits from 1 to 99 (minutes)
6. Dial ***** to start a new programming procedure or hang up the handset to end..

To delete timer programming and restore the default settings:

4. Dial **663 ***, wait for the "Enter setting" prompt.
5. Dial **#**, wait for the "The setting is..." reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check the timer:

4. Dial **663 #**, wait for the "The setting is..." reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 4.

12 DIRECTORY PROGRAMMING PROCEDURES

The system has a directory in common to all extensions which may contain up to 100 numbers. The directory may contains telephone numbers, with telephone line access code, or PABX service codes.

The directory is empty by default.

12.1 STORING A TELEPHONE NUMBER IN THE DIRECTORY**To store a number in the system directory:**

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the "Enter programming number" prompt.
4. Dial **N ***, wait for the "Enter setting" prompt, where:
N = index of the number in directory (000 - 099)
5. Dial **L N #**, wait for the "Enter setting" prompt, where:
L external line where to forward the call
80 for any available private line
0 for any available line
81 ÷ 83 for line 1 ÷ 3
N telephone number, including ***** # and flash (enter **R***, **R#**, **RR** respectively) considering that L+ N must be no more than 26 digits
6. Dial ***** to start a new programming procedure or hang up the handset to end.

12.2 DELETING A TELEPHONE NUMBER FROM THE DIRECTORY**To delete a number from the system directory:**

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the "Enter programming number" prompt.
4. Dial **N ***, wait for the "Enter setting" prompt, where:
N = ndex of the number in directory (000 - 099)
5. Dial **#**, wait for the "The setting is..." reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

12.3 CHECKING TELEPHONE NUMBER IN THE DIRECTORY

To check a number in the system directory:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.
4. Dial **N #**, wait for the “*Enter setting*” prompt, where:
N = index of the number in directory (000 - 099)
5. Dial ***** to start a new programming procedure or hang up the handset to end.

13 PRINTOUT PROGRAMMING PROCEDURE

13.1 FORM FEED AND BUFFER FULL WARNING

This procedure is used to enable telephone traffic form feed. Data will in all cases be stored in a buffer which may contain up to 1000 records. The procedure is also used to program the 80% print buffer full warning.

To define programming mode:

To define notice mode:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.
4. Dial **700 ***, wait for the “*Enter setting*” prompt.
5. Dial **X, #**, wait for the “*Enter setting*” prompt, where:
X = 0 No form feed, no buffer full warning
X = 1 No form feed, buffer full warning
X = 2 Form feed, no buffer full warning
X = 3 Form feed, buffer full warning
6. Dial ***** to start a new programming procedure or hang up the handset to end.

The switchboard will call the programmed extension (if the warning function is on) when the buffer memory is 80% full.

The message will be repeated every half hour until the log is cleared or becomes less than 80% full. The switchboard will automatically delete 20% of the records (the oldest) when the buffer is full.

By activating the continuous printing, the PABX sends to PC application software the log contents that have never been printed before; then it sends the information about each call that has been made.

13.2 CALL LIST

This function is used to manage the automatic call list stored by the system.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.

To delete the list of unanswered calls referred to an extension:

4. Dial **703 ***, the system will reply “*Enter the extension*”.
5. Dial extension **#**, wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete the list of inbound calls referred to an extension:

4. Dial **704 ***, the system will reply “*Enter the extension*”.
5. Dial extension **#**, wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete the list of outbound calls referred to an extension:

4. Dial **705 ***, the system will reply “*Enter the extension*”.
5. Dial extension **#**, wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete the list of inbound and outbound calls referred to an extension:

4. Dial **706 ***, the system will reply “*Enter the extension*”.
5. Dial extension **#**, wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index preceded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To query the number of call stored by the switchboard buffer (maximum 1000 calls):

1. Pick up the handset and wait for the dial tone.
2. Dial *** secondary password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.

4. Dial **707 #**, wait for the “*Number of telephone calls...*” message
5. Dial ***** to start a new programming procedure or hang up the handset to end.

 All the extensions can be cleared by entering extension = 40.

13.3 PRINTING THE LAST THREE DIGITS

This function can be use to enable printing of the last three digits.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “*Enter programming number*” prompt.

To activate or deactivating printing of the last three digits:

4. Dial **708 *** , wait for the “*Enter setting*” prompt.
5. Dial **X #**, wait for the “*Enter setting*” prompt, where:
X = 0 / 1 off/on
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete last three digit activation/deactivation and restore factory settings:

4. Dial **708 *** , wait for the “*Enter setting*” prompt.
5. Dial **#**, wait for the “*The setting is...*” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check last three digit activation/deactivation:

4. Dial **708 #**, wait for the “*The setting is...*” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 0 (no print).

14 DATE/TIME AND ALARM PROGRAMMING PROCEDURE

14.1 DATE PROGRAMMING PROCEDURE

The function is used to set the date. The current date will be entered if an incorrect date is set.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “*Enter programming number*” prompt.

To set the date:

4. Dial **370 *** , wait for the “*Enter setting*” prompt.
5. Dial **DD, MM, YY**, where:
DD = day (01 - 31)
MM = month (01 - 12)
YY = year (00 - 99)
6. Dial **#**, wait for the “*The setting is...*” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To check the date

4. Dial **370 #**, wait for the “*The setting is...*” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

14.2 CLOCK PROGRAMMING PROCEDURE

This function is used to set the hour and minutes. The current time will be entered if an incorrect time is set.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial ***** , wait for the “*Enter programming number*” prompt.

To set the hour:

4. Dial **360 *** , wait for the “*Enter setting*” prompt.
5. Dial **HH, MM**, where:
HH = hour (00 - 23)
MM = minutes (00 - 59)
6. Dial **#**, wait for the “*The setting is...*” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To check the time:

4. Dial **360 #**, wait for the “*The setting is...*” reply.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

14.3 ALARM PROGRAMMING PROCEDURE

This function is used to activate the alarm service to any extension.

1. Pick up the handset and wait for the dial tone.
2. Dial *** secondary password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.

To set the alarm from an extension:

4. Dial **390 ***, the system will reply “*Enter the extension*”.
5. Dial **extension ***, wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial **HH MM**, where
HH = hour (00 - 23)
MM = minutes (00 - 59)
7. Dial **#**, wait for the “*The setting is...*” reply.
8. Dial ***** to start a new programming procedure or hang up the handset to end.

To switch the alarm off from an extension:

4. Dial **390 ***, the system will reply “*Enter the extension*”.
5. Dial **extension ***, wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial **#**, wait for the “*The setting is...*” reply.
7. Dial ***** to start a new programming procedure or hang up the handset to end.

To check the alarm from an extension:

4. Dial **390 ***, the system will reply “*Enter the extension*”.
5. Dial **extension #**, wait for the “*Enter setting*” prompt, where:
extension = number of the extension (41 ÷ 52) or numbering plan index proceeded by 0 (011 ÷ 022)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 9999.

14.4 AUTOMATIC SUMMER SAVING TIME SWITCH PROGRAMMING PROCEDURE

This function is used to authorise automatic switch to summer saving time and vice versa.

To program the automatic switch:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.
4. Dial **362 ***, wait for the “*Enter setting*” prompt.
5. Dial **X #**, wait for the “*Enter setting*” prompt, where:
X = 0 Switch off
X = 1 Switch on
6. Dial ***** to start a new programming procedure or hang up the handset to end.

The default setting is 1.

15 SYSTEM PARAMETERS

15.1 SOFTWARE VERSION

To check the software version:

1. Pick up the handset and wait for the dial tone.
2. Dial *** secondary password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.
4. Dial **910 #**, wait for the “*Number of telephone calls...*” message.
5. Dial ***** to start a new programming procedure or hang up the handset to end.

16 REMOTE PROGRAMMING

16.1 ENABLED

This function is used to authorise remote programming.

The switchboard may be programmed from a remote telephone using the same methods as from an extension (this function is only available with DISA up and running).

To switch the function on:

1. Call an extension from the outside in DISA mode.
2. Wait for the DISA message.

3. Dial *** main password #** and wait for the programming invitation tone.
4. Dial *****, wait for the “Enter programming number” prompt.
5. Proceed with the programming procedure as from an extension.

The switchboard will hang up after 90 seconds of non use.
Important note: *****, **#** and flash cannot be remotely programmed.

16.2 REMOTE MANAGEMENT NUMBER PROGRAMMING PROCEDURE

This function is used to define the numbers enabled for remote programming.

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.

To program a remote management number:

4. Dial **895 N ***, wait for the “Enter setting” prompt, where:
N = number index (0 - 9)
5. Dial **NUM #**, wait for the “Enter setting” prompt, where:
NUM = maximum 26-digit number including *** #** and flash (Dial **R***, **R#**, **RR** respectively)
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To delete a remote management number:

4. Dial **895 N ***, wait for the “Enter setting” prompt, where:
N = number index (0 - 9)
5. Dial **#**, wait for the “The setting is...” reply.
6. Dial ***** to start a new programming procedure or hang up the handset to end.

To check a remote management number:

4. Dial **895 N #**, wait for the “Enter setting” prompt, where:
N = number index (0 - 9)
5. Dial ***** to start a new programming procedure or hang up the handset to end.

The default parameter is empty.

17 RESETTING PROCEDURES

The resetting functions can be used to restore switchboard default configurations.

17.1 BLACK LIST RESET

This function is used to clear the general black list, the line black list and respective associations to extensions.

The function consists of the following Steps:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.
4. Dial **944 #**, wait for the “Enter setting” prompt.
5. Hang up.

17.2 ENABLED CLASS RESET

This function is used to reset the enabled class default settings.

The function consists of the following Steps:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.
4. Dial **955 #**, wait for the “Enter setting” prompt.
5. Hang up.

17.3 TELEPHONE COMPANY AND CODE RESET

This function is used to reset the telephone company and respective enabled numbers/codes to default settings.

The function consists of the following Steps:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “Enter programming number” prompt.
4. Dial **966 #**, wait for the “Enter setting” prompt.
5. Hang up.

17.4 AUTHORISED AREA CODE RESET

This function is used to reset the authorised numbers/codes to default settings.

The function consists of the following Steps:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.
4. Dial **977 #**, wait for the “*Enter setting*” prompt.
5. Hang up.

17.5 SYSTEM DIRECTORY RESET

This function is used to clear the system directory.

The function consists of the following Steps:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.
4. Dial **988 #**, wait for the “*Enter setting*” prompt.
5. Hang up.

17.6 SYSTEM RESET

This function is used to reset the entire system and restore default settings.

The function consists of the following Steps:

1. Pick up the handset and wait for the dial tone.
2. Dial *** main password #** and wait for the programming invitation tone.
3. Dial *****, wait for the “*Enter programming number*” prompt.
4. Dial **999 #**, wait for the “*Enter setting*” prompt, where:
5. Hang up.

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CONTENTS

The switchboard is supplied with:

1. 1 code base board Ref. 1372/100
2. 1 one-local line expansion board Ref. 1372/2
3. 4 one-extension expansion boards Ref. 1372/3
4. Wall fastening bolt set
5. CD containing SCAITERM2NET programming software and manuals of the boards
6. Manuals

To operate the system, insert the boards and set the system up as shown in the installation chapter.

1 WARNINGS

Carefully read the following warnings which provide important information concerning installation, use and maintenance safety.

- This equipment must only be put to the use for which it was intended.
- The manufacturer cannot be held responsible for damage deriving from improper use.
- This device was designed to be compliant with the standards in force.
- The system must be built in compliance with the regulations in force.
- Before connecting the equipment to the power supply, ensure that the power supply is at 230V A/C.
- Disconnect the device from the mains before cleaning or maintenance.
- An appropriate circuit breaker should be fitted upstream to the power unit so as to cut off power to the device in the event of a failure.
- Exclusively contact a service centre authorised by the manufacturer for repairs.
- Only use a service centre authorised by the manufacturer for any repairs that need to be carried out.
- The lightning symbol in an equilateral triangle indicates the presence of dangerous voltage.
- The device was designed to operate in the conditions specified in the "TECHNICAL SPECIFICATIONS" paragraph.
- The lightning bolt symbol, inside a black triangle, indicates the presence of dangerous voltages.
- Make sure that the device is installed as specified.
- Connect the specific power line and telephone line protections to the system.
- Wherever possible, avoid placing this equipment next to any other electrical device that has not been designed to be used in conjunction with this equipment.
- Do not insert objects or expose this equipment to liquids, moisture, or sprays. Do not open the central plastic covering of this equipment, as this product does not contain parts that are subject to maintenance and repair.
- Do not use the telephone in an emergency to report a leakage of gas.
- Keep the packaging (plastic bags, polystyrene, etc.) away from children.
- Packaging is potentially dangerous.
- By removing the protection lid, circuits connected to 230Vac mains can be reached: please disconnect power before opening the lid.
- Observe 230Vac mains connections and connect the phase wire to "L" terminal pin.

2 EMERGENCY

The switchboard functions will not be operative during a blackout.

Calls can still be made and received on the three PSTN analogue lines (where applicable) respectively to extensions 41, 42, 43.

Data are kept stored in the internal memory of the switchboard to protect settings. The actuator relay will return to off status.

All data will be restored and the switchboard will resume normal operation when the power comes back.

It is advisable to install a UPS (Uninterruptible Power Supply) unit for maintaining operation of all PABX functions also in the event of a power blackout lasting for several minutes.

To select the right type of UPS, we recommend you contact your nearest technical assistance centre. Install a UPS outputting a sinusoidal waveform with a power of at least 200W or 400VA.

3 SYSTEM INSTALLATION

Respect the following precautions to make the system:

1. **Type of wire**
The telephone connections must be made by connecting a sheathed telephone cable to a pair. If you decide to use a multipair cable, no other separate pair, for example for the transmission of power, video images, or data, may be used. As set out in EC regulations, cables belonging to incompatible systems must be housed in separate tubes, and be connected to separate connection boxes.
2. **Length of connections**
The maximum length for connections between extensions and the switchboard is 500 metres.
3. **Wire cross-section area**
To cable the doorphone system please refer to the cable sections specified in the tables of the specific system.
4. **Terminals**
Only type-approved telephones may be installed and connected to the telephone network.
5. **Telephone line protection**
Insert protections on the local lines entering the PABX and also on the extensions running outside the building and lines which are connected to devices powered at 230V (faxes, modems, answering machines, cordless telephones).
6. **Power line protection**
Connect to the PABX 230Vac power line input.

The ground terminal of the power line protection device must be connected to the electrical system earth.

When connecting the power line protection, be careful to correctly connect the line wire and the neutral wire to the respective terminals.

7. Power

Use appropriate ducts and flush-mounted box for network power.

8. Electrical line

It is advisable to use a 230Vac electrical line and a two-pole switch for use by the switchboard only. The electrical line must be provided with an electrical surge protection device.

9. Electrical system

Make sure that the existing electrical system complies with the law. Grounding measurements must be certified by ENPI or by a qualified electrician.

Telephone systems must be installed by specialised personnel.

IMPORTANT

Appropriate line and electrical protections must be installed in the switchboard.

The main causes of interference on telephone lines and electrical power lines (which may cause faults and damage the PABX) may be attributed to:

- Accidental contacts with higher voltage lines (short-circuit).
- Electromagnetic coupling with other wires arranged in proximity.
- Sudden variations of load, specifically for electrical power lines (electrical motors, etc.).
- Transient interference generated by atmospheric events (lightening).

4 INSTALLATION

4.1 INTRODUCTION

It's better to install the device in protected areas, protected from the atmospheric agents.

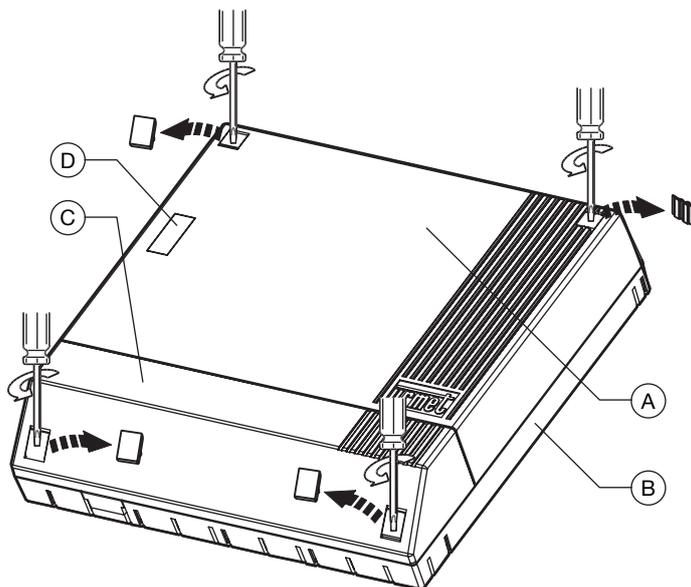
The device may be installed in any position providing the safety rules in force are respected.

In particular, use appropriate ducts and flush-mounted box for network power.

The device may be wall-mounted using the specific bracket provided for this purpose.

AGORÀ 2 (Ref. 1372/312) requires the following system connections:

- Connection to the 230Vac power mains.
- Connection to telephone lines.
- Connection to extensions.
- Connection to the door phone column.
- Optional connection to auxiliary services directly controlled via telephone.
- Installation of telephone line and power network protections.



The switchboard consists of a top A, a base B and a hood C.

The top is made of a single part and is used to cover and protect the inside parts. The top is provided with ventilation slots, a window (D) protected by a glass with two LEDs indicating correct operation of the PABX and a transmitter for connection to a PDA via IrDA.

- GREEN LED indicates the presence of network power.
- Blinking RED LED indicates correct operation of the PABX.

The wire access slot leading to the system ducts is present under the hood in the base.

The circuit includes terminals for the connection to telephone lines, to the door phone system, to telephone extensions and to the actuator relay. Open the hood to access the terminals. Open the top A to access the network powers terminals.

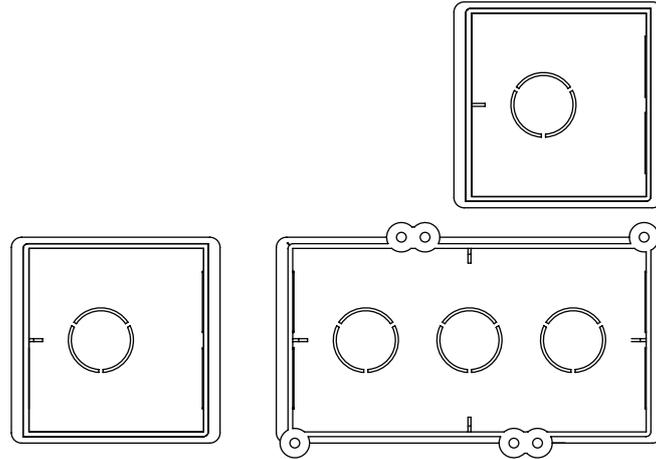
4.2 WALL INSTALLATION PROCEDURE

1332/528 INSTALLATION/REPLACEMENT

IMPORTANT: The external dimensions of the Ref. 1372/312 are the same as the 1332/528. The position of the bolts is also the same. This means that you can replace the 1332/528 with the Ref. 1372/312 without drilling new holes for ALL installations.

INSTALLATION WITH TWO 1032/50 BOXES AND ONE 1032/51 BOX

If the 1332/528 was installed with 1032/50 and 1032/51 boxes, the current base can ensure better access to the wires from the wall thanks to the larger openings. In this type of installation, the 230V wires must be positioned in the passage in the upper right of the base. For any other type of installation with external duct, the many pre-cut areas in the base can be used to easily arranged the wires inside the switchboard.



The two boxes must be joined together in door phone and telephone systems. The third box is used to supply network power at 230V.

Proceed as follows:

- Join the flush-mounting box by means of the fairlead shims provided.
- Install the two flush-mounting boxes at a height of 1.35 metres from the floor.
- Lead all door phone system wires from the left box and the telephone lines from the right box.
- The two systems must be arranged in two different ducts.
- The power ducts must be separate the lead out from the small box on the top.

Extract the protective hood to access the connection terminals, the main hood and the mains protection cover by removing the respective screws.

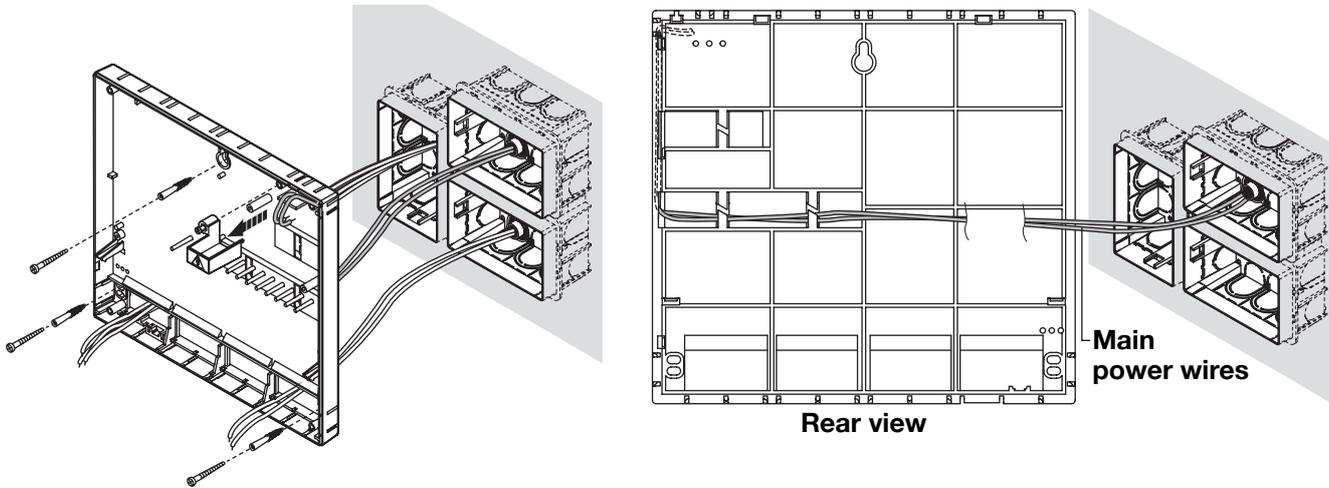
Proceed as follows for fastening to the wall:

- Position the switchboard to the wall so that the lower part of the base is 30mm lower than the inner wall of the flush-mounting boxes and that these are perfectly centred with respect to the base itself.
- Then indicate the fastening bolt positions.
- Fix the base of the switchboard to the wall using the bolts after introducing all the wires through the specific slots.
- The telephone wires will enter the right-slot and the door phone wires the left slot.
- The power wires must enter from the top right hole and the two wires from the flush-mounted box must be wired together in the specific groove on the base of the base.
- Make the various connections and the various system settings.
- At the end of the system operation checks, refit the protective hoods and fasten them with the screws again.

INSTALLATION WITH THREE 503 BOXES

The switchboard can be installed using three 503 boxes as shown in the figure.

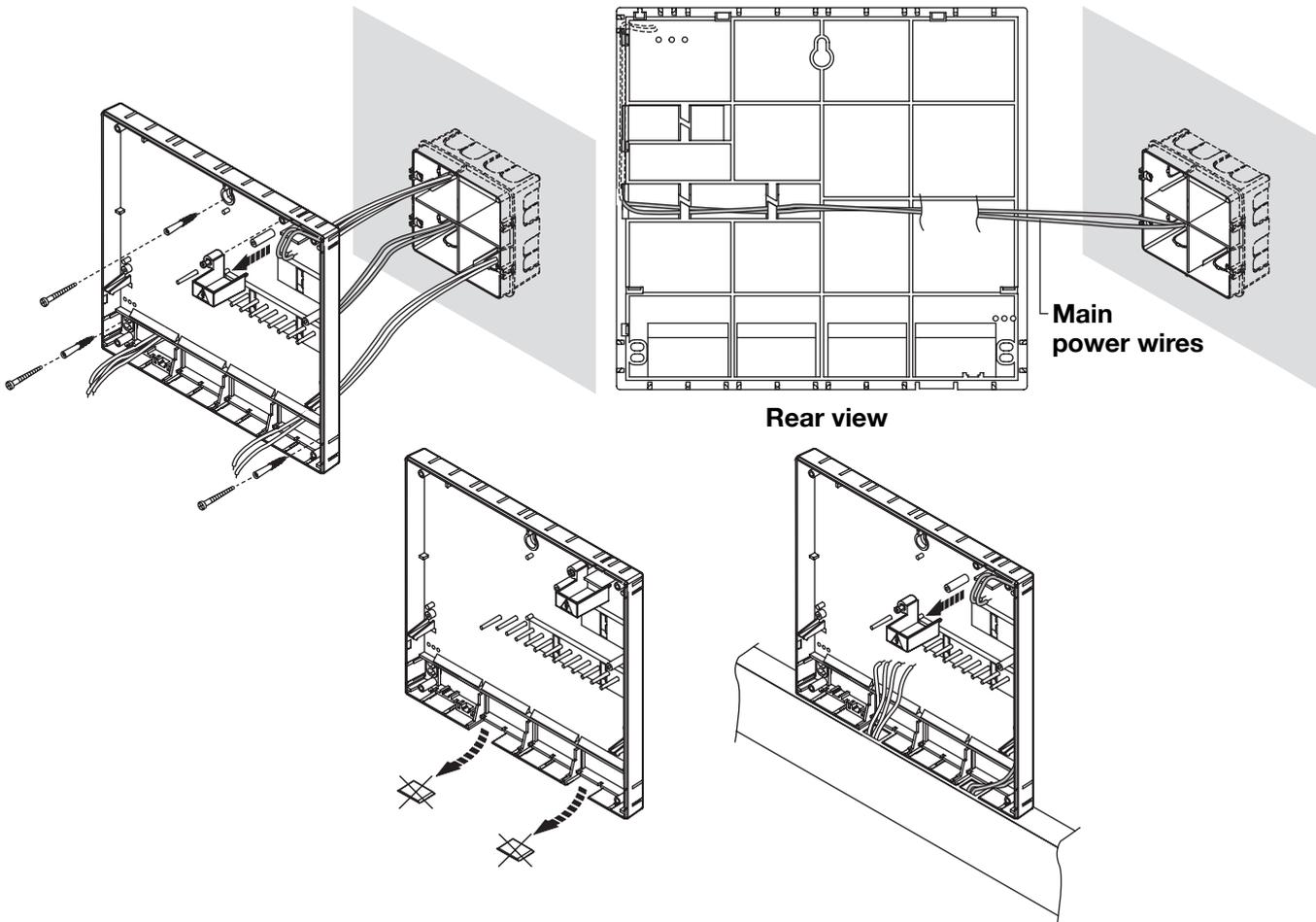
Install the three boxes as shown in the figure (side by side and levelled) and position the Ref. 1372/312 so that the wire can be accessed through the holes in the lower part of the base. The switchboard and boxes do not need to be centred in the horizontal direction. 230V main power wires must be placed in the slot present in the middle of the base.



INSTALLATION IN 4+4 GEWISS GW24206 BOX

Insert the separators as shown in the figure after installing the box 4+4. Position the Ref. 1372/312 so that the wires can be accessed through the holes in the bottom of the base. The switchboard and boxes do not need to be centred in the horizontal direction. 230V main power wires must be placed in the slot present in the middle of the base.

INSTALLATION WITH DUMMY JOINT FOR CONDUIT USE



Remove the dummy joint parts like indicated in figure using electrician scissors. connect power supply cables and system cables separately like is shown in figure.

4.3 CONNECTIONS

DTMF telephones, answering machines, fax machines, etc. can be connected to the Agorà 2 switchboard.

It is advisable to connect the switchboard to the various devices and various devices together using a twisted telephone double wire made of thermoplastic material AWG 22 (0.32 mm²). Length must be no longer than 500 metres for each device.

It is advisable to use multiple pair telephone wires for lengths longer than 200 metres.

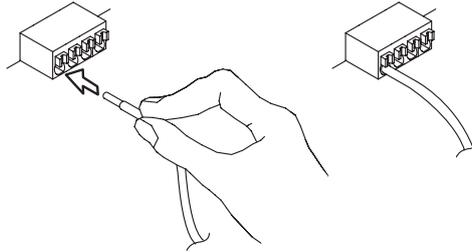
The wires from telephone devices must be suitably protected, especially if they run outside the building. The telephone wires must be kept at least 20 cm away from the 230V mains wires.

The connection of cables can be made in two ways, it depends on the type of used cable.

The max cables section for all the connections is AWG16 (1.5mm²)

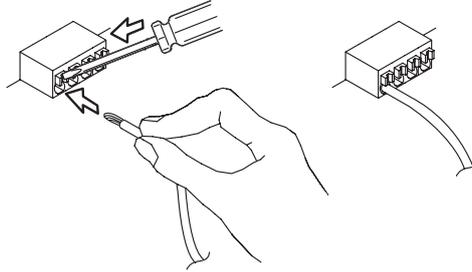
Rigid wire

To connect a rigid wires push the wire in the dedicated hole like it's shown in figure.

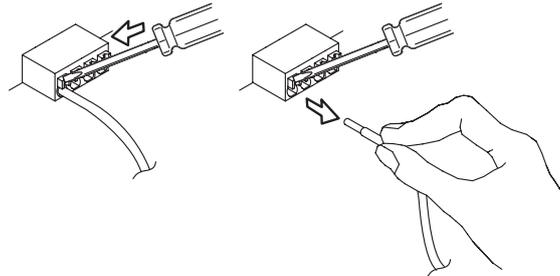


Interlaced cable

In order to connect an interlaced wire push with a screwdriver and push the wire in the dedicated hole like it's shown in figure.

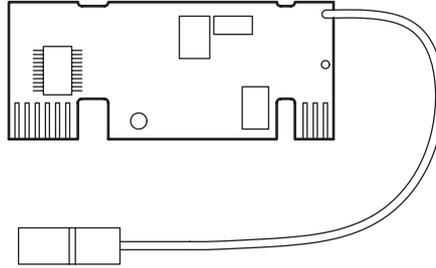


To disconnect the wires from the connectors push with a screwdriver and pull the wire like it's shown in figure.

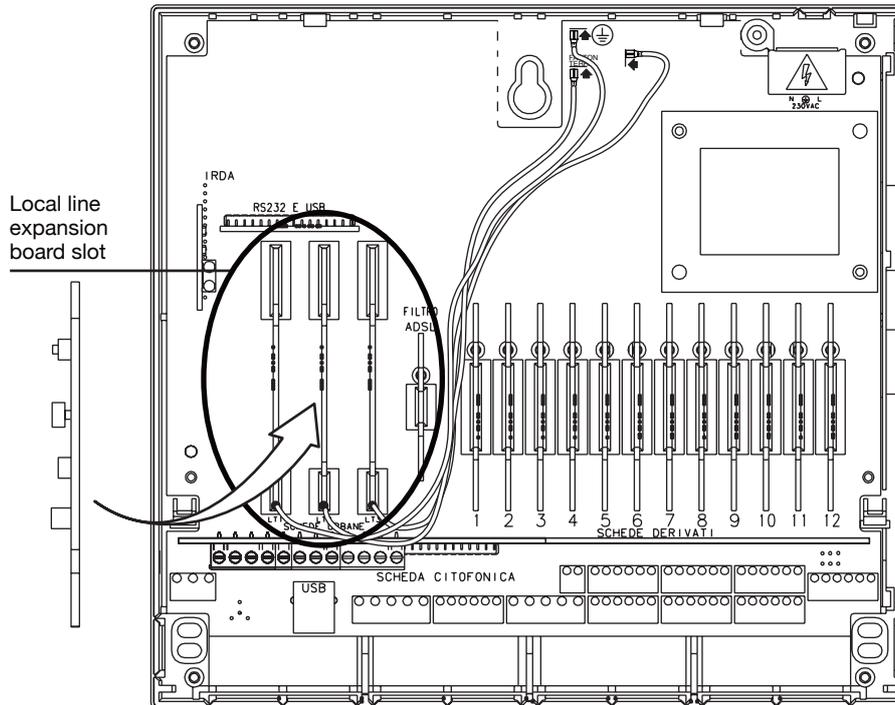


5 DEVICE CONNECTIONS

5.1 LOCAL LINE CONNECTION PROCEDURE Ref. 1372/2



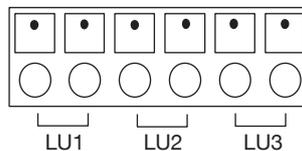
Insert the card in one of the three slot on the base reserved to local lines, respecting the position of the connectors and connecting the ground wire for the protection.



 Insert the board with the components on the left side.

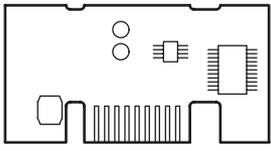
The telephone lines must be equipped with ground connection to connect the external lines to the switchboard. According to the number and position of the installed local lines (Ref. 1372/2):

- Connect the first local line to the LU1 terminals.
- Connect the second local line to the LU2 terminals.
- Connect the third local line to the LU3 terminals.

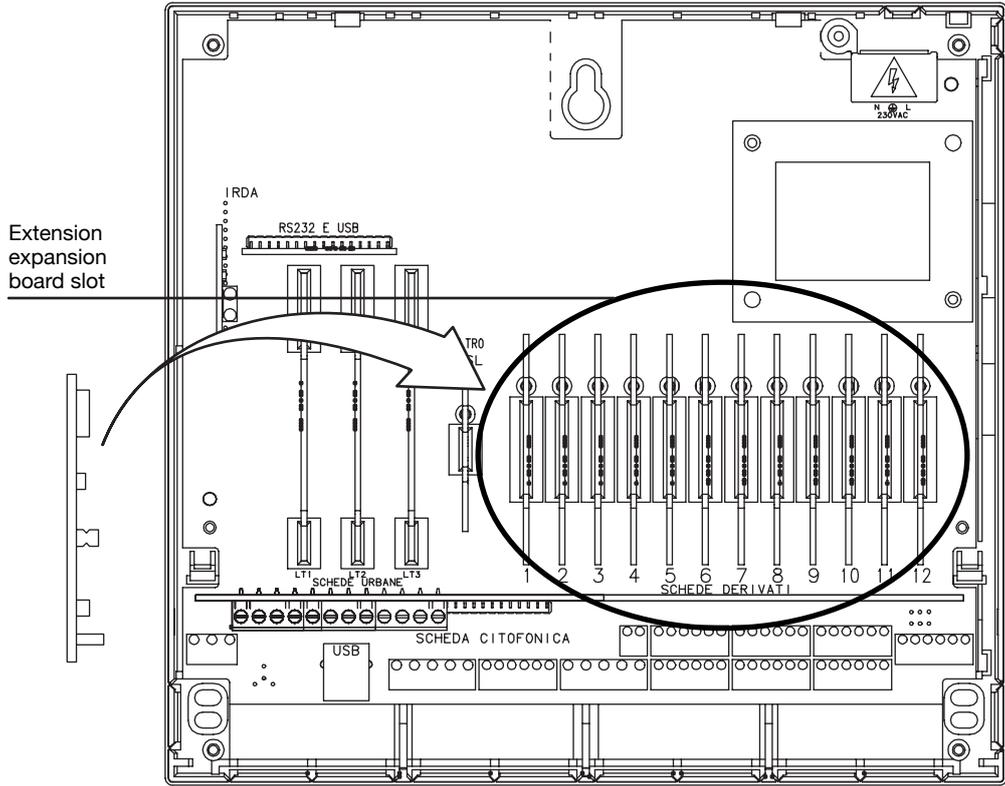


Close the switchboard.
Power the switchboard.

5.2 EXTENSION AND LOCAL LINE CONNECTION PROCEDURE Ref. 1372/3

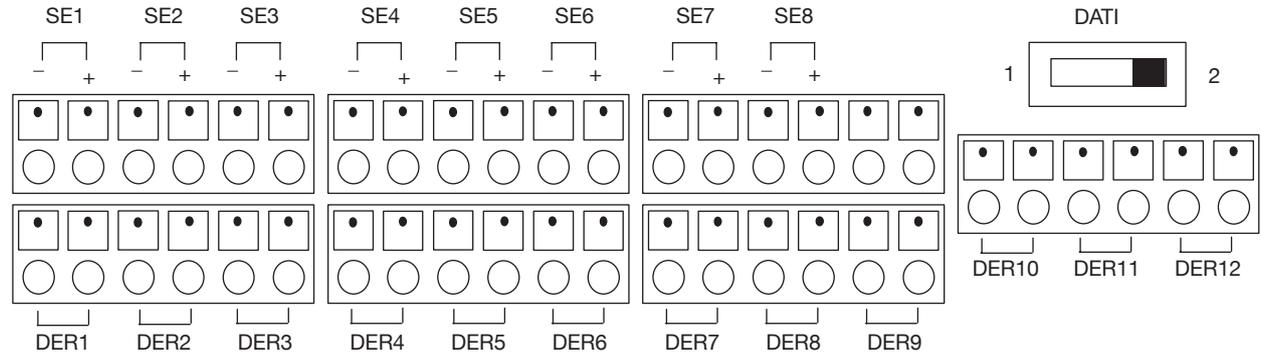


Insert the board in one of the twelve extension slots on the base board.

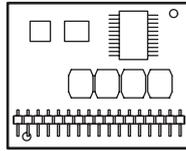


Insert the board with the components on the right side.

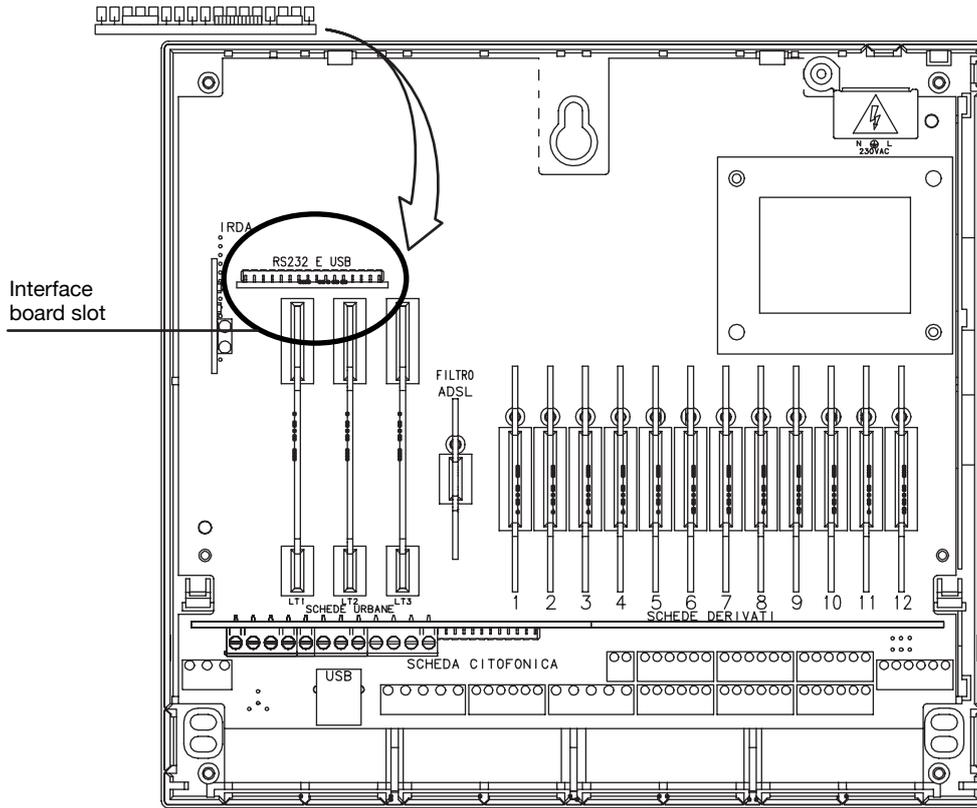
Connect the wires (two wires) from the terminal devices from DER1 to DER12 according to the number of devices to be connected and the installation position of the extension boards (Ref. 1372/3). Connect telephone 1 to terminal DER1, telephone 2 to terminal DER2, and so on.



Close the switchboard.
Power the switchboard.



Insert the USB/RS232 interface board in the slot on the base board.



Insert the board with the components facing upwards.

RS232

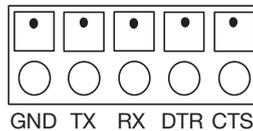
A PC can be connected via an optional serial interface Ref. 1372/50.

To do this, simply insert the USB/RS232 interface board in the specific slot on the base (see respective section) and connect the serial cable to the GND-TX-RX-DTR-CTS terminals of the base as shown below with the device not powered:

- Make the serial connections GND-TX-RX-DTR-CTS (refer to the connection diagram).

Connections:	Switchboard terminal/wire	9-pole female connector
	GND terminal	pin 5 (9-pin PC connector)
	Tx terminal	pin 3 (9-pin PC connector)
	Rx terminal	pin 2 (9-pin PC connector)
	DTR terminal	pin 4 (9-pin PC connector)
	CTS terminal	pin 8 (9-pin PC connector)

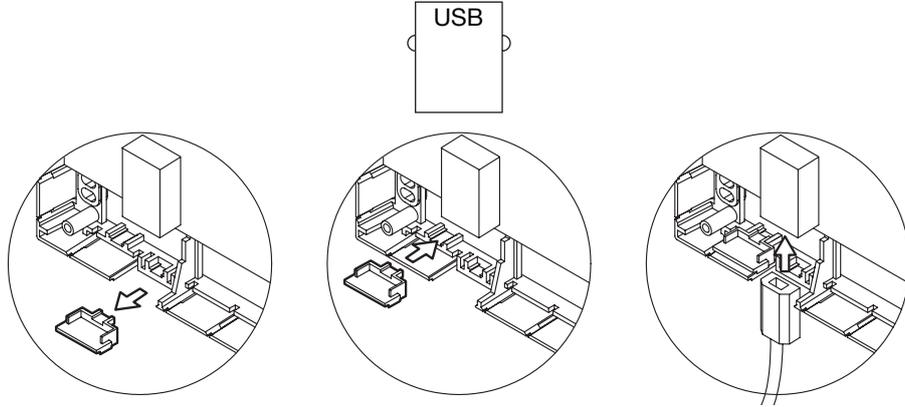
The printed labels indicate PC functions.



USB

A PC can be connected via an optional USB interface Ref. 1372/50.

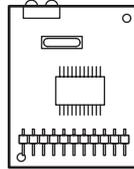
To do this, simply insert the USB/RS232 interface in the specific slot on the base (see respective section) and connect the USB wire provided with the optional board on the base as shown in the figure, by removing the protective cap with the device not powered.



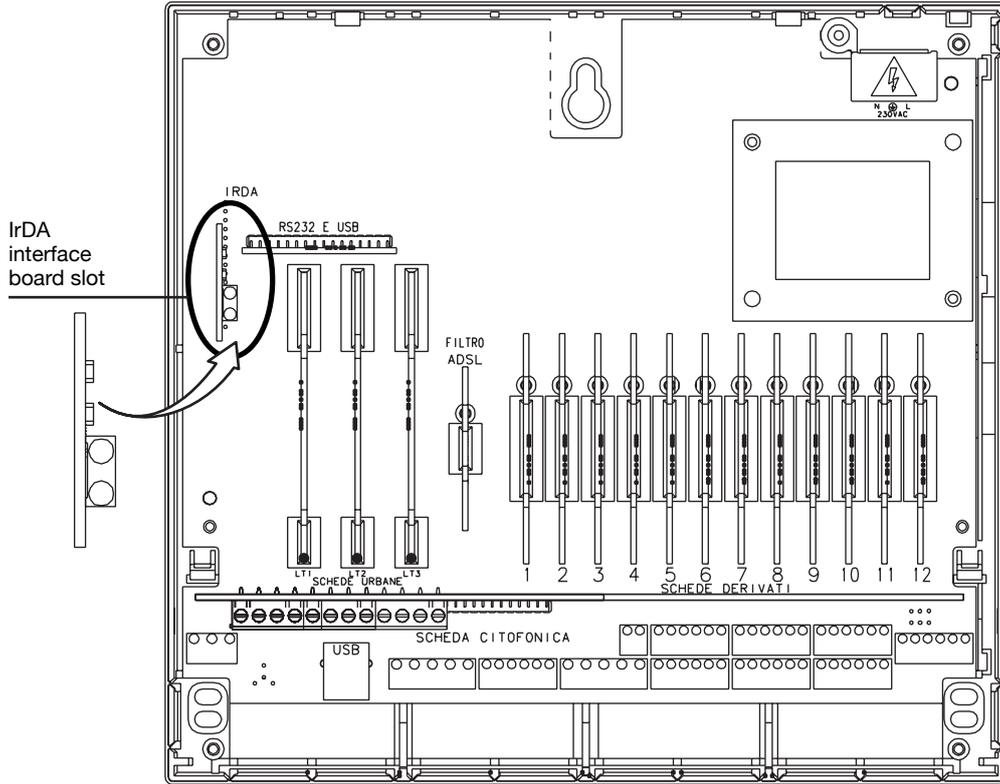
Close the switchboard.
Power the switchboard.

5.4 IRDA INTERFACE CONNECTION PROCEDURE Ref. 1372/58

Insert the board in the base board slot for the IrDA interface instead of the existing LED board.



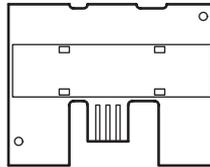
This device do not needs wire connections, to use this device read its manual.



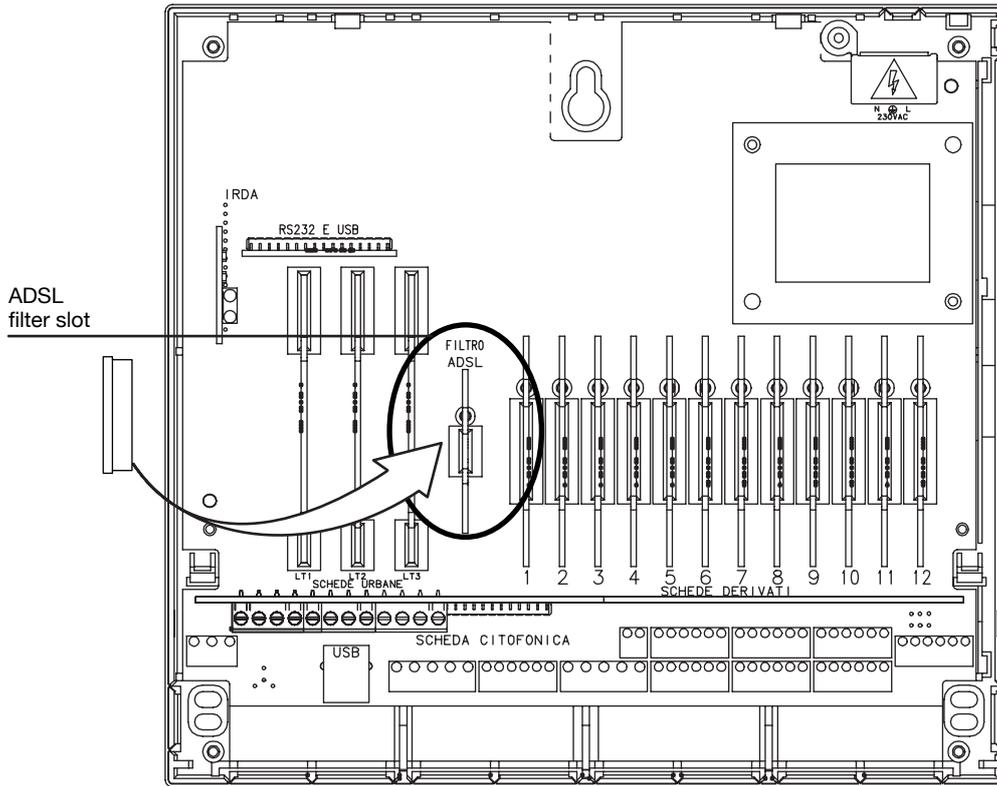
 Insert the board with the components on the right side.

Close the switchboard.
Power the switchboard.

5.5 ADSL FILTER CONNECTION PROCEDURE Ref. 1372/57



Insert the ADSL filter interface board in the slot on the base board.

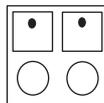


 Insert the board with the components on the right side.

Proceed as follows to connect a ADSL modem to the switchboard:

- Install the ADSL filter (Ref. 1372/57) to the specific connector on the base.
- Connect the ADSL modem to the MODEM terminals as shown in the figure.

MODEM



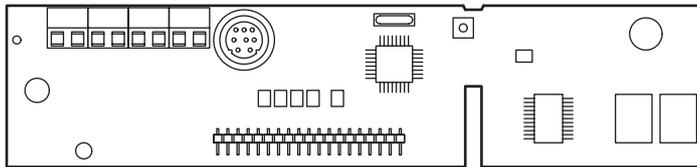
- Install the local line board (Ref. 1372/2) **in position LU3**.

Close the switchboard.
Power the switchboard.

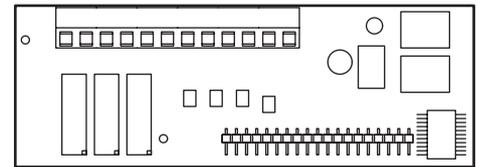
The connection speed of a modem connected to an extension will be limited (depending also on the system and on the line). If you want to increase the speed you must connect the modem to the specific terminal blocks (MODEM) leaving the extension free. A modem used for FAX reception (not for dial-up internet connection) is not limited and can be connected to an extension because this is compatible with the speed of analogic fax. For using an ADSL modem it's required an ADSL filter card 1372/57 in the PABX. Local line connected to the modem will be LT3.

5.6 DOOR PHONE CONNECTION PROCEDURE

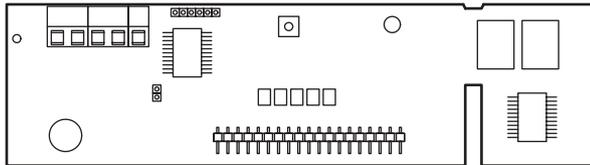
(4+N Ref. 1372/56, 1+N Ref. 1372/55, BIBUS Ref. 1372/54, DIGIVOICE Ref. 1372/53)



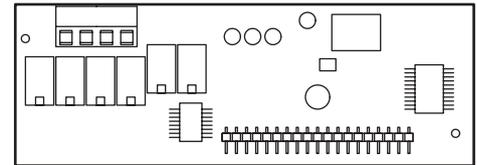
Ref. 1372/53



Ref. 1372/56

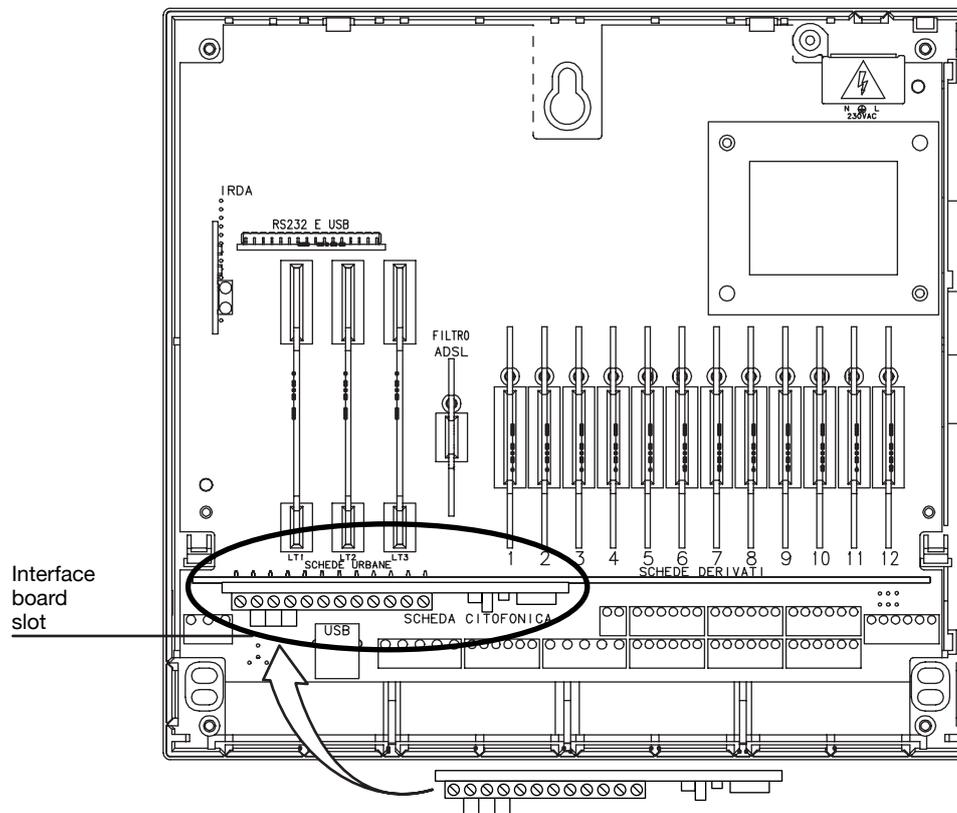


Ref. 1372/54



Ref. 1372/55

Insert the door phone interface board in the slot on the base board.

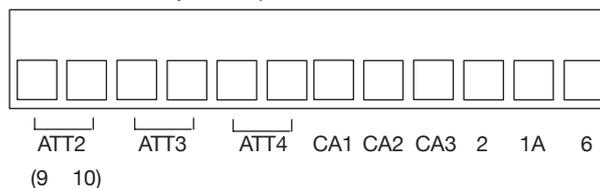


 Insert the board with the components facing downwards.

5.6.1 CONNECTING THE 4+N DOOR PHONE INTERFACE (Ref. 1372/56)

Proceed as follows to connect the 4+N door phone system and the actuator relays normally opened (ATT2, ATT3, ATT4) (switchboard off):

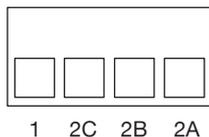
- Connect the door phone column to the terminals with a 5-wire cable (see wiring diagram par. 13.1).
- Connect the wires of you system to the actuator relays as required.



5.6.2 CONNECTING THE 1+N DOOR PHONE INTERFACE 1+N (Ref. 1372/55)

Proceed as follows to connect the 1+N door phone system (switchboard off):

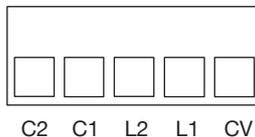
- Connect the door phone column to the terminals as shown in figure (see wiring diagram par. 13.2).



5.6.3 CONNECTING THE BIBUS DOOR PHONE INTERFACE (Ref. 1372/54)

Proceed as follows to connect the Bibus door phone system (switchboard off):

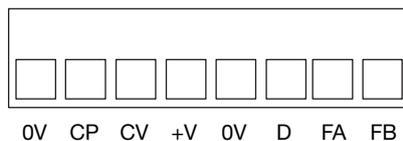
- Connect the door phone column to the terminals as shown in figure (see wiring diagram par. 13.3).



5.6.4 CONNECTING THE DIGIVOICE DOOR PHONE INTERFACE (Ref. 1372/53)

Proceed as follows to connect the Digivoice door phone system (switchboard off):

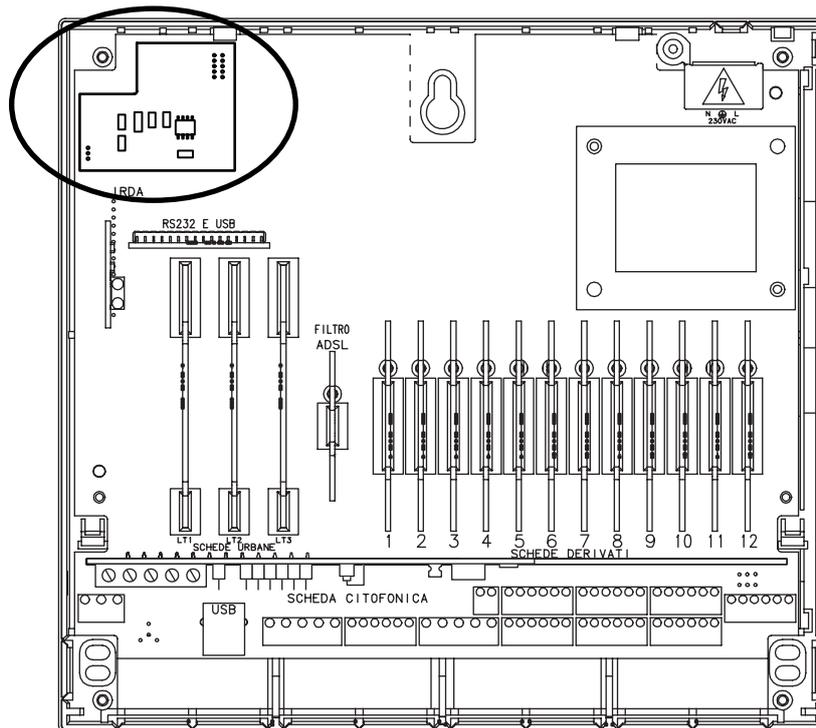
- Connect the door phone column to the terminals as shown in figure (see wiring diagram par. 13.4).



Close the switchboard.
Power the switchboard.

5.7 AUTOMATIC OPERATOR CARD Ref. 1372/59

Insert the card in the top left corner of the PABX on connectors J21 and J25. Basic card reserved for the USB/RS232 interface.



The card does not require wiring.

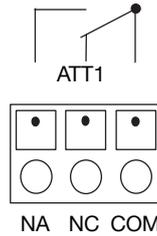
Power the switchboard.

Warning! Operate with caution to avoid contact with powered parts.

After insertion, close the switchboard and power on.
 If the card has been inserted correctly, the led on the card will light.
 If the led does not light, switch off PABX and check correct insertion of the card.
 At this point, the card can be programmed following the instructions of this manual.

6 CONNECTING THE ACTUATOR RELAY TO THE BASE

Connect the wires from your system to the following terminals to connect the actuator relay (ATT1) on the base (switchboard off)::



Maximum actuator relay contact capacity: 48Vac - 1Ampere.

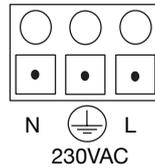
7 ELECTRICAL LINE CONNECTION PROCEDURE

It is advisable to use a 230Vac electrical line and a two-pole switch for use by the switchboard only. The electrical line must be provided with an electrical surge protection device.

Make sure that the existing electrical system complies with the law. Grounding measurements must be certified by ENPI or by a qualified electrician.

To connect to the 230Vac electrical line:

Cable the 230V main power wires to the specific terminal blocks as indicated on the silk screen.



8 DIRECTOR2 AND LED PANEL TELEPHONE CONNECTION PROCEDURE

By using "DIRECTOR2" telephones or other telephones with LED panel such as Studio CL, Team CL, Euro CL, you can display the operation of your telephone by displaying use of local lines and extensions on the LED panel.

Position the DATA selector correctly according to the type of telephone installed: (can be a microswitch or a jumper):

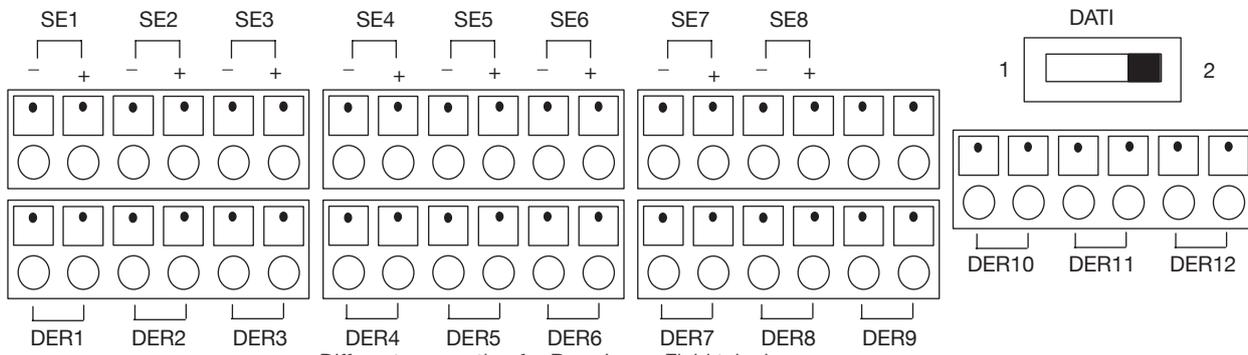
- For Studio CL, Euro CL and Team CL telephones (max 3), switch at 1 (A).
- For Director2 Top or Director2 CL telephones (max 8), switch at 2 (B).

 Director2 Top telephone will not works in position 1.

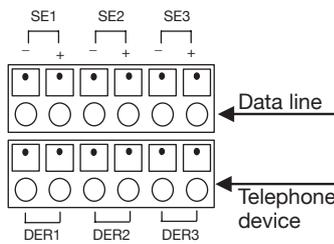
The 4-wire connection is available for the first 8 extensions of the DER1 - DER8 system, respectively to terminals SE1 - SE8, respecting the polarity of the circuit.

Refer to the manual for operation, indications and functions of the telephone.

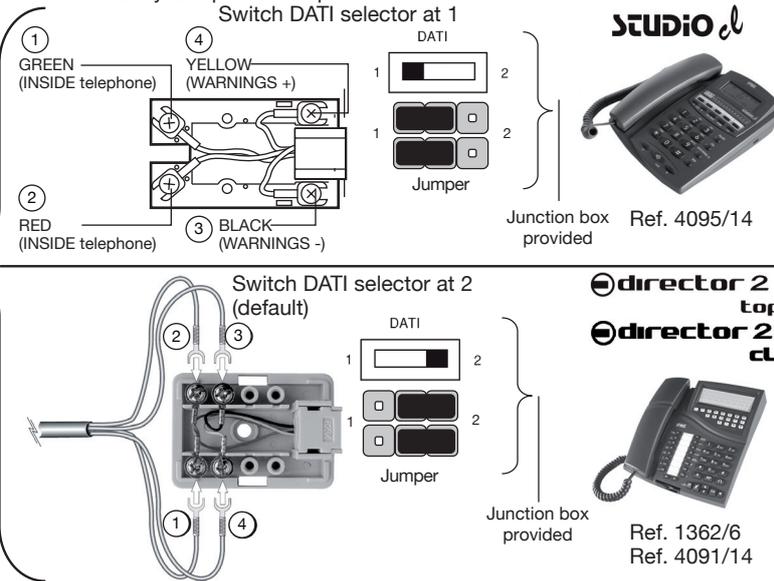
The DATI selector must be switched with the switchboard main power turned off.



Different connection for Busy Lamp Field telephone



1	Green wire	DER	Telephone device
2	Red wire	DER	Telephone device
3	Black wire	SE +	Data line
4	Yellow wire	SE -	Data line

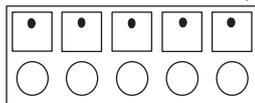


Junction box show in the figure are provided whit the telephone.
The DATI selector must be switched with the switchboard main power turned off.

9 EXTERNAL ON-HOLD MUSIC CONNECTION PROCEDURE

Connect the musical source to the following inputs to use external on-hold music and power the system if required (IMAX 50mA):

- COM** Ground of your circuit
- IN** External music input
- +12V** Circuit power



COM +12V G/N IN AMP
- VOL MUSIC IN +

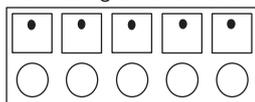
External on-hold music volume adjustment.

The external on-hold music function must be enabled for this function.

10 EXTERNAL AMPLIFIER CONNECTION

Connect to the following terminals to broadcast an announcement using an external amplification system:

- AMP** Audio signal output
- COM** Audio signal output

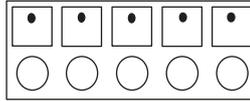


COM +12V G/N IN AMP

11 EXTERNAL DAY/NIGHT SWITCH CONNECTION

Connect the following terminals to use the day and night class external switch.

G/N External activation contact input
COM External activation contact ground



COM +12V G/N IN AMP

12 SWITCHING ON AND TESTING THE SYSTEM

Perform the following tests carefully to check correct wiring connections and correct operation of the switchboard after completing installation and connection operations:

1. With the switchboard not powered, check that the boards are correctly inserted in the base board and press them in well.
2. With the switchboard not powered, pick up the handset of extension 41 and check for the local line dial tone (emergency situations).
3. Repeat step 2 on extensions 42 and 43 for all installed lines (LT1, LT2, LT3).
4. Switch the switchboard on and check that the Green "POWER" LED lights up.
5. After a few seconds, check that the "RUN" LED lights up. After the initial self-test phase, the LED will start blinking.
6. Functionality and installation test:
 Pick up the handset and digit:
#900 test the main power value and the hardware installation in order to check the corrected operation of the PABX. The PABX answers:

Main power	1	OK
	2	OK
	3	OK

Line 1, 2, 3 (It depends on the number of lines installed)

Extension 41, 42, ..., 52 (It depends on the number of extensions installed)

Door phone 53, 54, 55, 56 (It depends on the door phone interface installed)

Answering device hash active

#901 test the actuator relay on the base and on the door phone interface, if present.

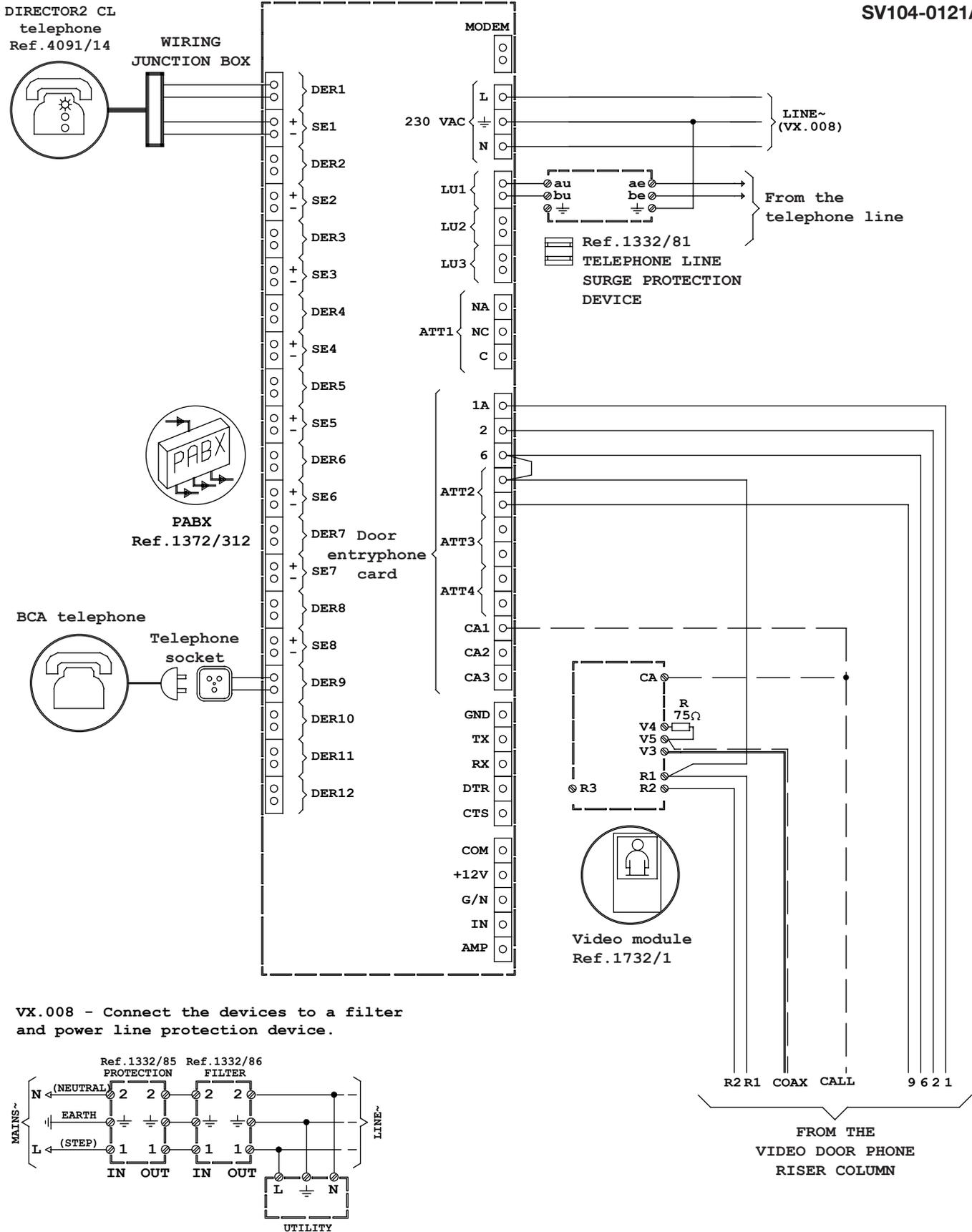
7. Pick up the handset of extension 41 and check for the continuous switchboard dial tone.
8. Dial 0 and check that the local line is correctly engaged. You should here the dial tone mentioned in step 2.
9. Repeat the operations in steps 6 and 7 on all telephones connected to the switchboard.
10. If a door phone board is installed, press the door unit call button and check that the call is forwarded to the telephones. Pick up and handset and check that conversation can be established. Dial R35 and check that the door is opened (if connected).
11. Repeat the operations in step 9 on all installed call buttons.

Proceed with the switchboard programming procedure if all checks are successful.

13 SYSTEM DIAGRAMS

13.1 SYSTEM DIAGRAM WITH 4+N DOOR PHONE INTERFACE

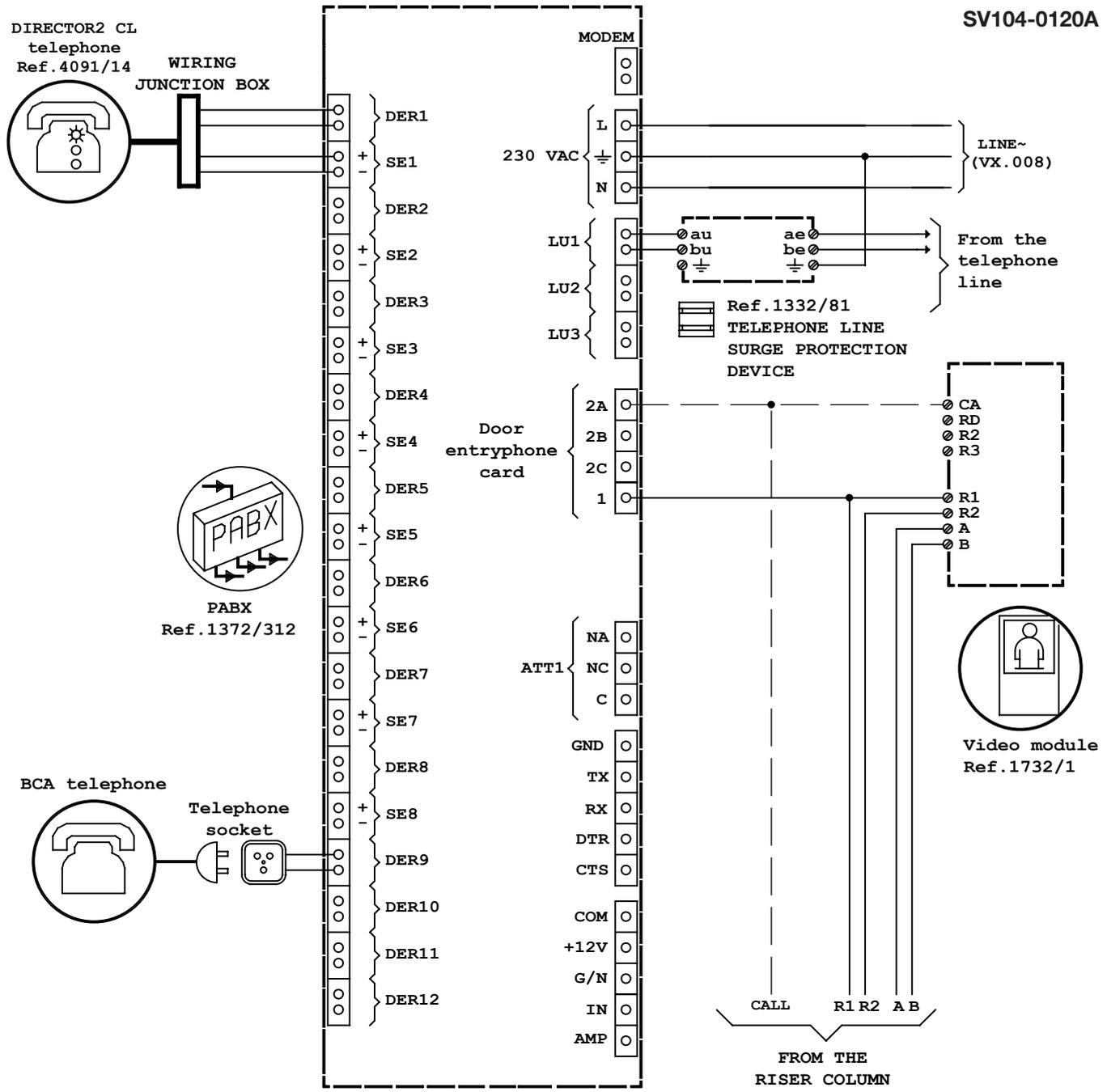
SV104-0121A



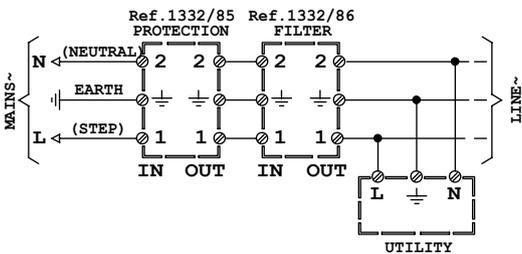
VX.008 - Connect the devices to a filter and power line protection device.

13.2 SYSTEM DIAGRAM WITH 1+N DOOR PHONE INTERFACE

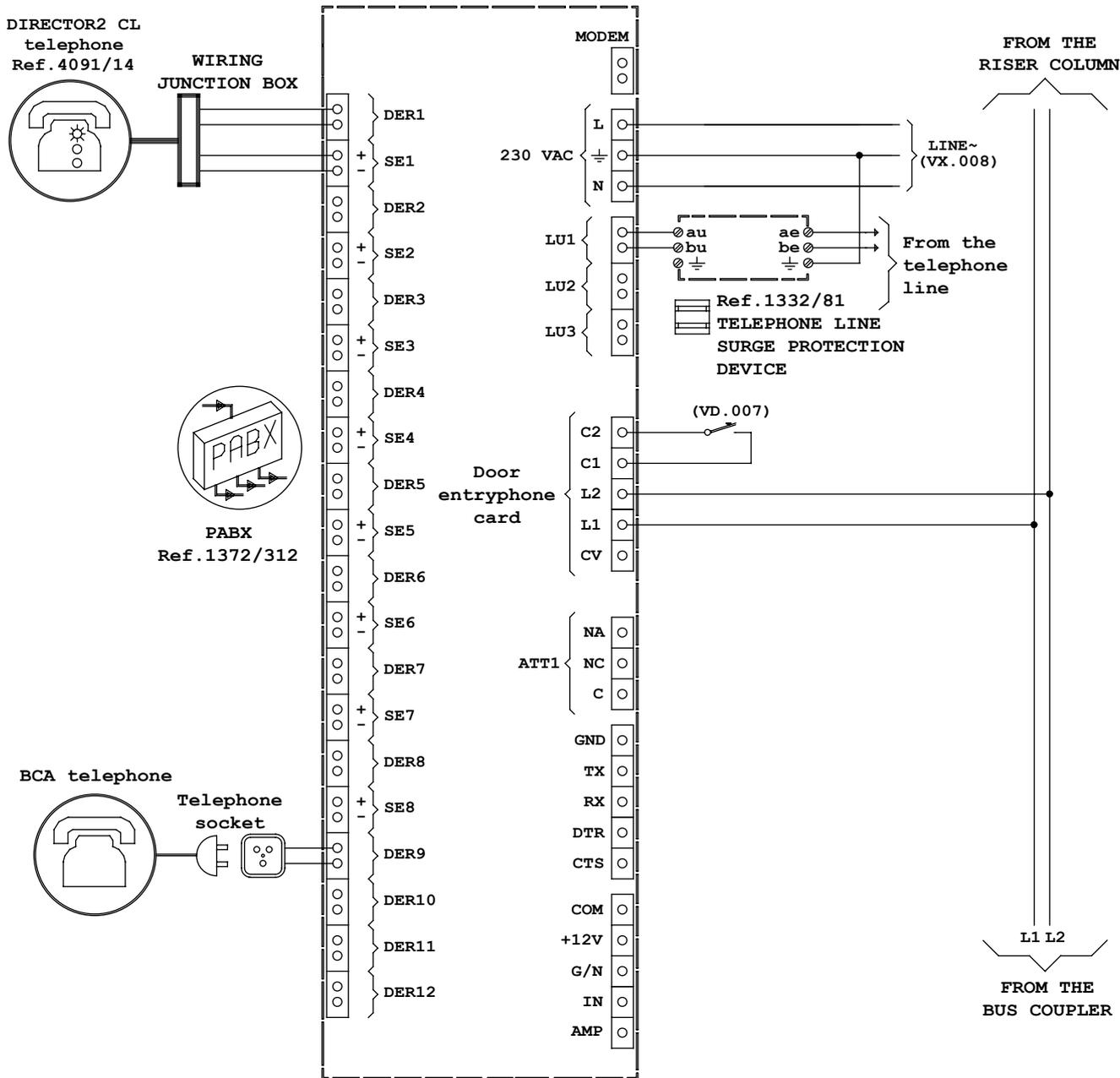
SV104-0120A



VX.008 - Connect the devices to a filter and power line protection device.



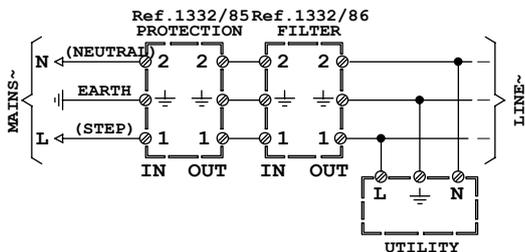
13.3 SYSTEM DIAGRAM WITH BIBUS DOOR PHONE INTERFACE



NOTE :

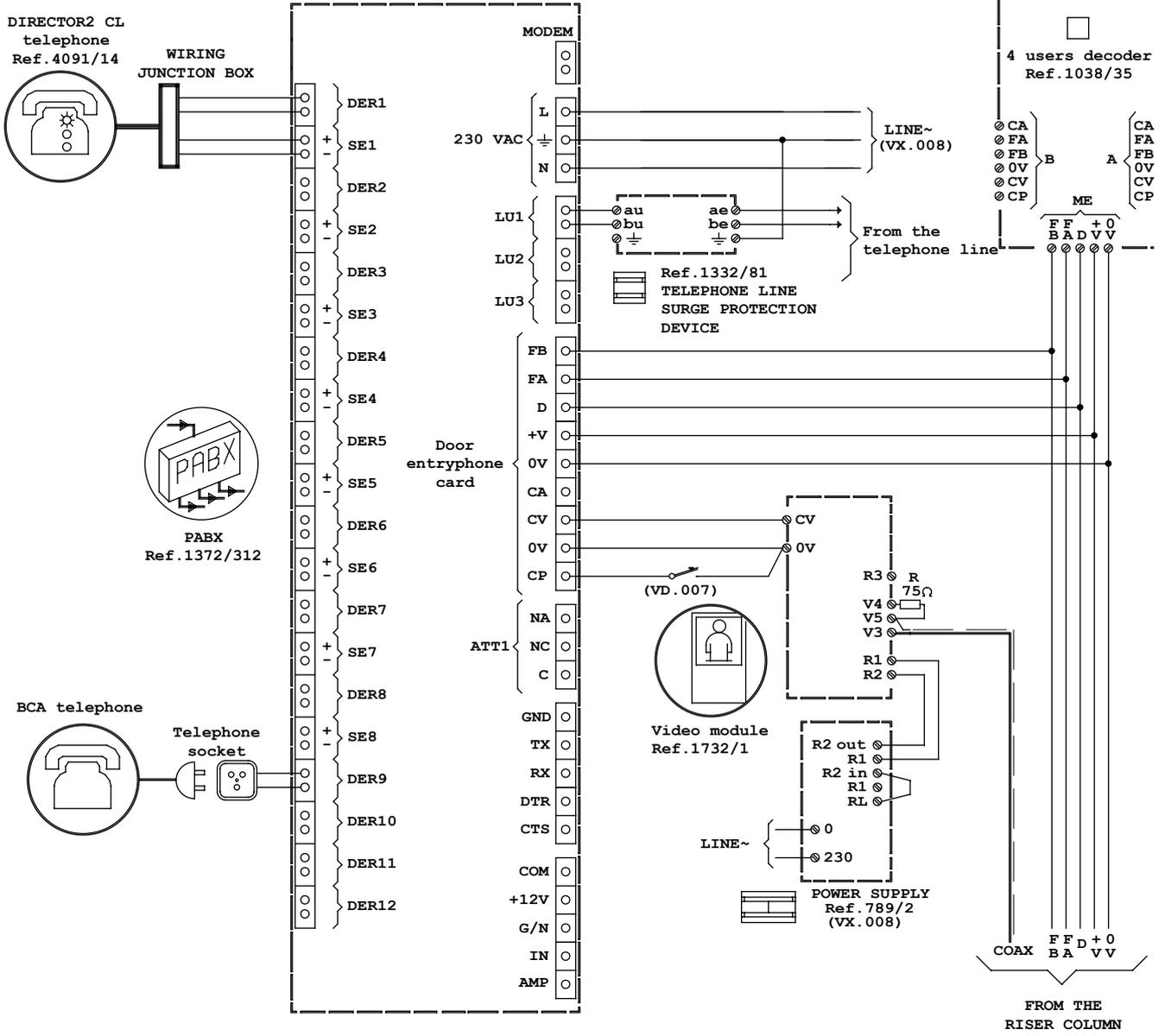
VD.007 = Floor call button.

VX.008 - Connect the devices to a filter and power line protection device.



13.4 SYSTEM DIAGRAM WITH DIGIVOICE DOOR PHONE INTERFACE

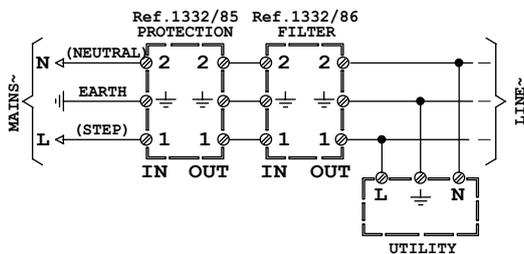
SV104-0118A



NOTE :

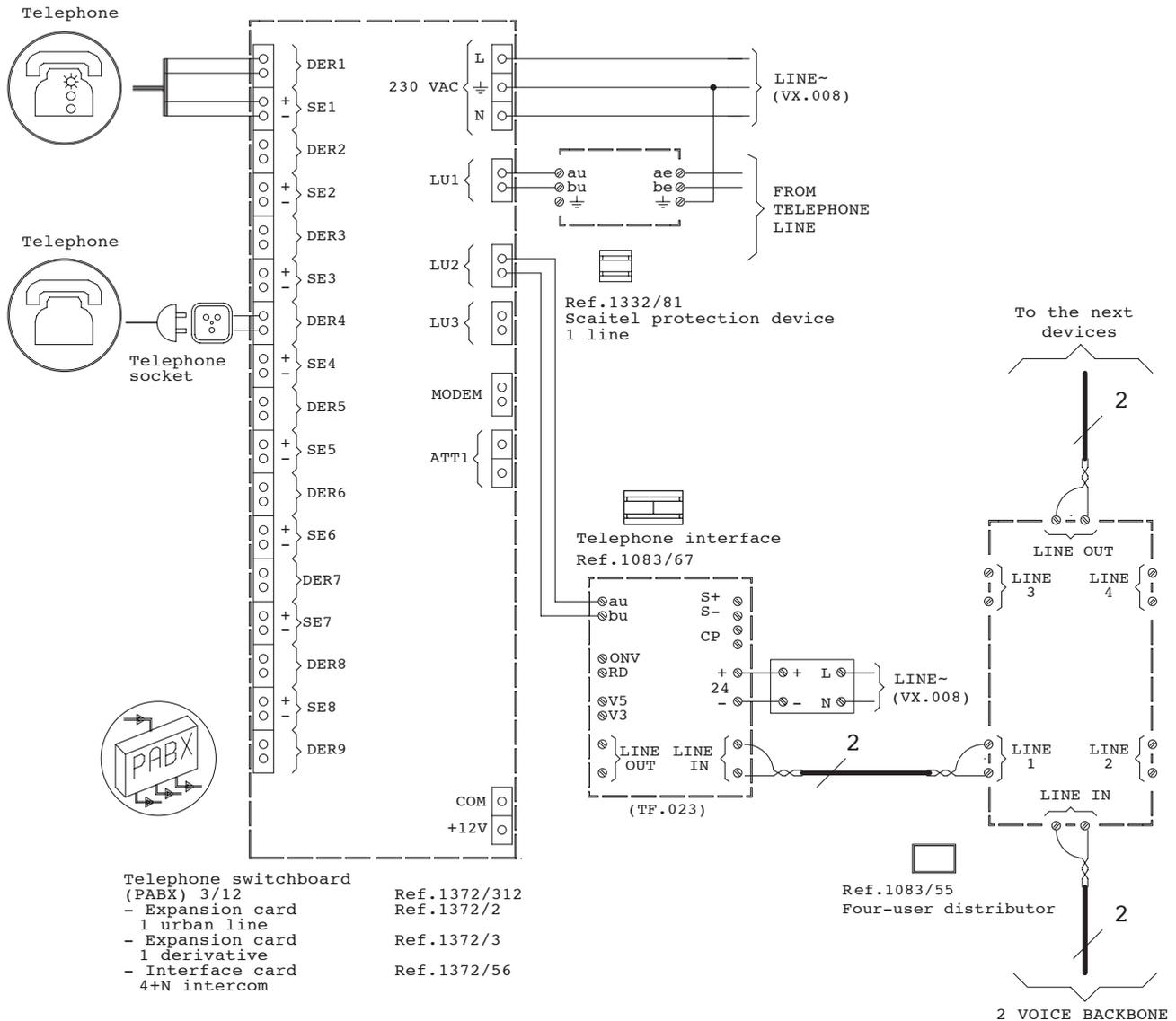
VD.007 = Floor call button.

VX.008 - Connect the devices to a filter and power line protection device.



13.5 EXAMPLE OF CONNECTION OF 1 TELEPHONE INTERFACE TO 1 PABX TELEPHONE SWITCHBOARD

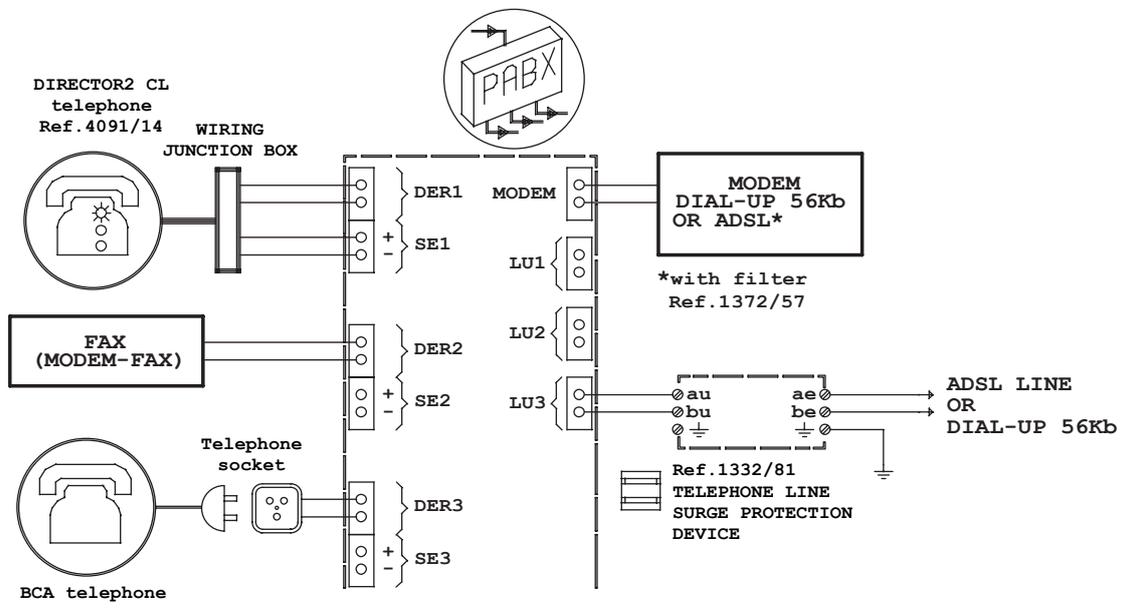
SV124-1206A



- Telephone switchboard (PABX) 3/12
- Expansion card 1 urban line
 - Expansion card 1 derivative
 - Interface card 4+N intercom
- Ref.1372/312
Ref.1372/2
- Ref.1372/3
- Ref.1372/56

TF.023 - TELEPHONE WIRES TABLE 1038/67	
Distance m	50
Wires au - bu	Use twisted telephone cable (2 x 0,6 mm ²).
- Lay the wires at a suitable distance from power lines (as far away as possible).	
VX.008 - Connect the devices to a filter and power line protection device.	

13.6 SYSTEM DIAGRAM WITH EXTERNAL MODEM



TABLE

- 1 Programming table
- 2 Numbering plan and short codes table
- 3 Parameter extension table
- 4 External line features table
- 5 Authorised number or code table
- 6 Authorised company table
- 7 Door phone codes table
- 8 Numbers table for relay activation
- 9 Codes table of Domus Cell GSM interface automatic routing
- 10 Table of extension lines and rings for sequential call
- 11 Tones
- 12 Call and indication time table

1 PROGRAMMING TABLE

The following table briefly lists the possible programming features.

PAR	FUNCTION	COMMANDS	SETTINGS	Default	Pwd
000 ÷ 099	100 System directory numbers	* 000 * NUM # * 000 * # * 000 #	NUM= max. 26 digit number (including *, # and flash)	Empty	P
300	DISA message recording / listen again	* 300 * N * * 300 * N #	N= 1 record message 1 2 record message 2 X= 1 play message 1 2 play message 2 3 play PC message 4 play default message	Empty	P
3110 ÷ 3133	Select line DISA message	* 31TX * AB # * 31TX * # * 31TX #	T= 1-3 for local line to be configured X= 0 Day DISA Mon/Fri 1 Night DISA Mon/Fri 2 DISA Sat/Sun 3 Wildcard DISA AB= Up to two digits: 0 no message 1 recorded message 1 2 recorded message 2 3 default message 4 PC message 3 0 P	30	P
321 ÷ 323	Wildcard DISA message	* 32T * X # * 32T * # * 32T #	T= 1-3 for local line to be configured X= 0 off 1 on	0	P
331 ÷ 333	Rings before DISA reply	* 33T * X #	T= 1-3 for local line to be configured X = 1 DISA after 1st ring 2 DISA after 2nd ring 3 DISA after 3rd ring 4 DISA after 4th ring 5 DISA after 5th ring	2	P
340	On-hold music	* 340 * X # * 340 * # * 340 #	X = 0 none 1 default 2 from PC 3 external 4 recorded from telephone	1	P
341	On-hold music recording / listen again	* 341 * N # * 341 * X #	N= 0 record music from telephone X= 0 play music recorded from telephone 1 play music received from PC 2 play default music	Empty	P
350	Your district area code	* 350 * Area code # * 350 * # * 350 #	Area code= max. 4 digits Including *, # and flash	Empty	P

351	International call code	* 351 * Number # * 351 * # * 351 #	Number= max. 4 digits Including *, # and flash	00	P
360	Hours and minutes	* 360 * HH MM # * 360 #	HH= hours from 00 to 23 MM= minutes from 00 to 59		P
362	Use summer saving time	* 362 * X # * 362 * # * 362 #	X = 0 do not use summer saving time = 1 use summer saving time	1	P
370	Data	* 370 * DD MM YY * * 360 #	DD= day (01 - 31) MM= month (01 - 12) YY= year (00 - 99)		P
390	Alarm clock	* 390 * EXT * HH MM # * 390 * EXT * # * 390 * EXT #	EXT=extension number of table index (preceded by 0) HH= hours from 00 to 23 MM= minutes from 00 to 59	99.99	S
400	Assign extension to the class	* 400 * EXT * ABCD # * 400 * EXT * # * 400 * EXT #	EXT=extension number of table index (preceded by 0) A day enabled class B night enabled class C day door phone connection D night door phone connection A, B, C, D = from 0 to 8 for classes 9	8888	P
4010 ÷ 4018	Inbound/outbound call class setup	* 401X * ABCDEFGHILMN # * 401X * # * 401X #	X= 9 classes from 0 - 8 A, B, C...= 0 off/ 1 on A inbound divert from an extension B inbound DISA routed C outbound broadcast D local outbound E local area codes F national outbound G national area codes H international outbound I international codes L outbound to telephone companies M telephone company codes N outbound to mobiles		P
4020 ÷ 4028	Door phone connection class setup	* 402X * ABCDEF # * 402X * # * 402X #	X= 9 classes from 0 - 8 A,B,C...= 0 off/ 1 on A bell audio 1 B bell ringer 1 C bell audio 2 D bell ringer 2 E bell audio 3 F bell ringer 3		P
410	Assign outbound lines	* 410 * EXT * ABC # * 410 * EXT * # * 410 * EXT #	EXT=extension number of table index (preceded by 0) A, B, C...= 0 off/ 1 on	111	P
420	Assign inbound lines	* 420 * EXT * ABC # * 420 * EXT * # * 420 * EXT #	EXT=extension number of table index (preceded by 0) A, B, C...= 0 off/ 1 on	111	P
430	Reply on absence	* 430 * EXT * ABC # * 430 * EXT * # * 430 * EXT #	EXT=extension number of table index (preceded by 0) A, B, C...= 0 off/ 1 on	111	P

440	Supplementary extension parameters	<p>* 440 * EXT * ABCDEFGH # * 440 * EXT * # * 440 * EXT #</p>	<p>EXT=extension number of table index (preceded by 0) A Immediate engagement: 0 off 1 on B Clearing time: 0 99 ms 1 199 ms 2 299 ms 3 399 ms 4 499 ms 5 599 ms 6 699 ms 7 799 ms 8 899 ms C R button time 0 80 ms 1 180 ms 2 280 ms 3 380 ms 4 480 ms 5 580 ms 6 680 ms 7 780 ms 8 880 ms D Warning tone 0 off 1 on E Inclusion 0 off 1 on F Day ringer mute 0 ringer off 1 ringer on G Night ringer mute 0 ringer off 1 ringer on H Telephone 0 BCA 1 Director2 2 KTS</p>	01011110	S
451 ÷ 453	Line parameters	<p>* 45T * ABCDEFGH # * 45T * # * 45T #</p>	<p>T= 1-3 for local line to be configured A Day DISA/fax: 0 no Disa/Fax 1 Fax only 2 Disa only 3 Disa/Fax B Night DISA/fax: 0 no Disa/Fax 1 Fax only 2 Disa only 3 Disa/Fax C Sat/Sun DISA/Fax: 0 no Disa/Fax 1 Fax only 2 Disa only 3 Disa/Fax D Off/On: 0 line off 1 line on E Local/Private: 0 local line 1 private line 2 door phone line F LCR off/on (0-1) 0 off 1 on G No tone/Tone/Please wait FAX MESSAGE 0 no tone 1 Tone 2 Please wait H Disab/Enab relay activation based on CLI (0-1) 0 disabled 1 enabled</p>	00010010	P

461	Relay actuator 1 operation ATT1	* 461 * X # * 461 * # * 461 #	X= 0 Stable off X= 1 Stable on X= 2 800/1600 ms timed	1	P
464	Relay actuator 4 operation	* 464 * X # * 464 * # * 464 #	X= 1 Stable on/off X= 2 800/1600 ms timed X= 3 Timed on/off (1- 9 s)	1	P
472 ÷ 474	Relay on/off timer mode 1	* 47T * X # * 47T * # * 47T #	T= 2-4 relay index X= seconds from 1 to 9	1	P
480	Flash button time on local line	* 480 * X # * 480 * # * 480 #	X= 1 100ms 2 270ms 3 600ms 4 900ms	1	P
490	Door phone call time	* 490 * X # * 490 * # * 490 #	X= from 0 to 60 seconds	10	P
500	Do-Not-Disturb on/off	* 500 * EXT * X # * 500 * EXT * # * 500 * EXT #	EXT=extension number of table index (preceded by 0) X= 0 off/ 1 on	0	S
501	Do-Not-Disturb setup	* 501 * EXT * I C1 C2 C3 L1 L2 L3 # * 501 * EXT * # * 501 * EXT #	EXT=extension number of table index (preceded by 0) I, C1, ..., L1, ...= 0 off/ 1 on I : internal calls C1 C2 C3: bells L1 L2 L3: lines	0000000	S
510	Divert now / Follow-up	* 510 * DER * DEST # * 510 * DER * # * 510 * DER #	EXT=extension number of table index (preceded by 0) where the service is activated DEST= extension number of table index (preceded by 0) where the service is activated	Empty	S
520	Divert time	* 520 * DER * DEST # * 520 * DER * # * 520 * DER #	EXT=extension number of table index (preceded by 0) where the service is activated DEST= extension number of table index (preceded by 0) where the service is activated	Empty	S
530	Divert when busy	* 530 * DER * DEST # * 530 * DER * # * 530 * DER #	EXT=extension number of table index (preceded by 0) where the service is activated DEST= extension number of table index (preceded by 0) where the service is activated	Empty	S
540	Divert call	* 540 * T # * 540 * # * 540 #	T= line to be engaged from 0 to 3 (0 for the first private line) Service not active if T set)	Empty	S
541	Call divert number	* 541 * NUM # * 541 * # * 541 #	NUM= max. 26 digit (including *, # and flash)	Empty	P
550	Divert out	* 550 * EXT * T # * 550 * EXT * # * 550 * EXT #	EXT=extension number of table index (preceded by 0) T= line to be engaged from 0 to 3 (0 for the first private line) Service not active if T set)	Empty	S
551	External divert number for each extension	* 551 * EXT * NUM # * 551 * EXT * # * 551 * EXT #	EXT=extension number of table index (preceded by 0) NUM= max. 26 digit (including *, # and flash)	Empty	S
560	Hot Line	* 560 * NUM # * 560 * # * 560 #	NUM= max. 26 digit (including *, # and flash)	Empty	P
570	Voicemail warning	* 570 * T # * 570 * # * 570 #	T= line to be engaged from 0 to 3 (0 for the first private line) (Service not active if T set)	Empty	S

571	Number of voicemails	* 571 * NUM # * 571 * # * 571 #	NUM= max. 26 digit (including *, # and flash)	Empty	P
580	Door phone follow-me on/off	* 580 * T # * 580 * # * 580 #	T= line to be engaged from 0 to 3 (0 for the first private line) Service not active if T set)	Empty	S
581	Door phone follow-me	* 581 * NUM # * 581 * # * 581 #	NUM= max. 26 digit (including *, # and flash)	Empty	P
582	Door phone follow-me setup	* 582 * C # * 582 * # * 582 #	C= 1 bell 1 2 bell 2 3 bell 3	1	S
583	Door phone follow-me "please wait" message on/off	* 583 * X # * 583 * # * 583 #	X= 0 off 1 on	0	P
600	External line engagement code	* 600 * X # * 600 * # * 600 #	X= 0 or 9	0	P
610	Park timers	* 601 * X # * 601 * # * 601 #	X= up to 3 digits from 0 to 300 seconds	90	P
620 ÷ 621	Divert timers	* 62X * Timer # * 62X * # * 62X #	Timer= 1 ÷ 99 seconds X= 0 - timer 1 1 - timer 2	25 25	S
630	Operator's station	* 630 * EXT # * 630 * # * 630 #	EXT= extension number (or table index preceded by 0) or group number	Empty	P
631	Operator's station on/off	* 631 * X # * 631 * # * 631 #	X= 0 operator's station off 1 operator's station on	0	S
632	Extension to call for buffer 80% full warning	* 632 * EXT # * 632 * # * 632 #	EXT= extension number of table index (preceded by 0)	41	P
640	Answering machine extension	* 640 * EXT # * 640 * # * 640 #	EXT= extension number of table index (preceded by 0)	Empty	P
650	Fax/Modem extension	* 650 * EXT # * 650 * # * 650 #	EXT= extension number of table index (preceded by 0)	Empty	P
663	External line call timer	* 663 * Timer # * 663 * # * 663 #	Timer= 1 ÷ 99 seconds	4	P
680 ÷ 683	Door unit extensions	* 68X * EXT # * 68X * # * 68X #	X= 1-3 door unit index EXT= extension number of table index (preceded by 0)	Empty	P
690	Call group setup (7 groups)	* 690 * EXT * XXXXXXX # * 690 * # * 690 #	EXT= extension number of table index (preceded by 0) X..X= 0 does not belong to group 1 belongs to group	0000000	P
700	Form feed/Warning	* 700 * X # * 700 * # * 700 #	X= 0 / 1 / 2 / 3 FORM FEED WARNING 0 no no 1 no yes 2 yes no 3 yes yes	0	P
703	Delete unanswered log	* 703 * EXT #	EXT= extension number of table index (preceded by 0) or group		P
704	Delete inbound log	* 704 * EXT #	EXT= extension number of table index (preceded by 0) or group		P
705	Delete outbound log	* 705 * EXT #	EXT= extension number of table index (preceded by 0) or group		P
706	Delete inbound / outbound buffer	* 706 * EXT #	EXT= extension number of table index (preceded by 0) or group		P
707	Buffer content	* 707 #	Max. 1000 calls		S

708	Print last three digits	* 708 * X # * 708 * # * 708 #	X= 0 off / 1 on	0	P
7110 ÷ 7119	Numbers for relay activation	* 711N * NUM # * 711N * # * 711N #	N= 0÷9 number index NUM= max. 26 digit	Empty	P
760	Night service mode on	* 760 * X #	X= 0 switch 1 manual 2 automatic	1	P
761	Night service on/off	* 761 * X # * 761 * # * 761 #	X= 0 off 1 on	0	P
7620 ÷ 7621	Night service time	* 762X * Start End # * 762X * # * 762X #	X= 0 Mon/Fri 1 Sat/Sun Start=start time (hh mm) End= end time (hh mm)	Empty	P
763	Night service short code	* 763 * X # * 763 * # * 763 #	X= 0 off 1 on	1	P
764	Switchboard SN status reading	* 764 #			N
765	Enable DISA or automatic operator	* 765 * X # * 765 * # * 765 #	X= 0 DISA 1 Automatic operator	0	P
766	Enable automatic operator On line	* 766T * X # * 766T * # * 766T #	T= 1 ÷ 3 per the LU X= 0 disabled 1 enabled	0	P
767	Number of repetitions messages 2, 4	* 767 * N # * 767 * # * 767 #	N= 1 ÷ 9 number of repetitions	5	P
768	Enable post-dialling DTMF	* 768 * X # * 768 * # * 768 #	X= 0 disabled 1 enabled	1	P
774	Association extension post-dialling	* 774N * D # * 774N * # * 774N #	N = 0-9 digit dialled D = extension or group to be called (41 ÷ 60 , 731 ÷ 737)	1 - 41 2 - 42 3 - 43 4 - 44 5 - 45 6÷9 - all	P
775	Recording of messages	* 775 * N # * 775 * # * 775 #	N= 1 ÷ 5 message to be recorded	empty	P
776	Messages association	* 776M * N # * 776M * # * 776M #	M= 1 ÷ 5 message type 1 welcome day/open 2 day hold/open 3 welcome night/pause 4 night hold/pause 5 release message N= 1 ÷ 5 message to be sent	1-1 2-2 3-3 4-4 5-5	P
777	Day time tables	* 777G * Starting time1 – end time1– starting time 2 – end time 2 # * 763 * # * 763 #	G= 1 ÷ 7 day of the week Starting time 1-2: start time table day 1-2 End time 1-2: end time table day 2 (hhmm)	Mon Fri 0800-1230 1430-1800 Sat-Sun Empty	P
778	Enable fax recognition on line	* 778T * N # * 778T * # * 778T #	T= 1 ÷ 3 for the LU X= 0 disabled 1 enabled	0	P
7691 ÷ 7693	Domus Cell interface automatic routing	* 769T * ABC # * 769T * # * 769T #	T= 1 ÷ 3 per le 3 LU A= Domus Cell Routing (0-1) 0 disabled 1 enabled B= Reroute on trunk line (0-1) 0 disabled 1 enabled C= Reroute on Domus Cell (0-1) 0 disabled 1 enabled	000	P

771 ÷ 773	Codes for Domus Cell Routing	* 77TX * NUM # * 77TX * # * 77TX #	T= 1 ÷ 3 for the three trunk lines X= 0 ÷ 1 item index in the table NUM= max. 4 digits	3 Empty	P
7880	No dialling or # by DAY	* 7880 * X # * 7880 * # * 7880 #	X= 40 or 031 for all 99 for close conversation 011 ÷ 030 extension from 41 to 50 032 ÷ 038 groups from 731 to 737	40 All	P
7881	Extension addressing by NIGHT	* 7881 * X # * 7881 * # * 7881 #	X= 40 oppure 031 per tutti 99 per Termina conversazione 011 ÷ 030 derivati da 41 a 50 032 ÷ 038 gruppi da 731 a 737	40 All	P
8000 ÷ 8005	Enabled companies	* 800N * Company # * 800N * # * 800N #	N= 0 ÷ 5 for 6 telephone companies Company= from 4 to 5 digits including *, # and flash	Empty	P
8010 ÷ 8019	First company codes	* 801N * Code # * 801N * # * 801N #	N= 0-9 code index Code= up to 4 digits including *, # and flash	Empty	P
8020 ÷ 8029	Second company codes	* 802N * Code # * 802N * # * 802N #	N= 0-9 code index Code= up to 4 digits including *, # and flash	Empty	P
8030 ÷ 8039	Third company codes	* 803N * Code # * 803N * # * 803N #	N= 0-9 code index Code= up to 4 digits including *, # and flash	Empty	P
8040 ÷ 8049	Fourth company codes	* 804N * Code # * 804N * # * 804N #	N= 0-9 code index Code= up to 4 digits including *, # and flash	Empty	P
8050 ÷ 8059	Fifth company codes	* 805N * Code # * 805N * # * 805N #	N= 0-9 code index Code= up to 4 digits including *, # and flash	Empty	P
8060 ÷ 8069	Sixth company codes	* 806N * Code # * 806N * # * 806N #	N= 0-9 code index Code= up to 4 digits including *, # and flash	Empty	P
8110 ÷ 8131	Sequential call extension lines	* 81TN * S * X1 X2 ÷ X12 # * 81TN * S * # * 81TN * S #	T= 1÷3 for the three trunk lines N= day / night (0-1) 0 day 1 night S= 1 ÷ 3 Step X1 ÷ X32= 1 extension line assigned 0 extension line not assigned	0 for all the extension lines	P
8210 ÷ 8231	Sequential call rings	* 82TN * S * R # * 82TN * S * # * 82TN * S #	T= 1÷3 for the three trunk lines N= day / night (0-1) 0 day 1 night S= 1 ÷ 3 Step R= 0 Step excluded 1 ÷ 5 rings number	0 for all the steps	P
8410 ÷ 8439	Black list number for each line	* 84TN * NUM # * 84TN * # * 84TN #	T= line from 1 to 3 N= 0-9 code index NUM= max. 26 digit including *, # and flash	Empty	P
8590 ÷ 8599	General black list numbers	* 859N * NUM # * 859N * # * 859N #	N= 0-9 code index NUM= max. 26 digit including *, # and flash	144, 16, 199, 4, 5, 8	P
8610 ÷ 8619	Extensions coupled to general black list	* 861N * XXXXXXXXXXXX # * 861N * # * 861N #	N= 0-9 code index X= 0 extension may dial number with index N 1 extension may not dial number with index N	11111111 1111	P
870	Authorise relay remote operation numbers	* 870 * X # * 870 * # * 870 #	X= 0 off 1 on	0	P
871	Authorise numbers for fax recognition	* 871 * X # * 871 * # * 871 #	X= 0 off 1 on	0	P
872	Authorise use of black list numbers	* 872 * X # * 872 * # * 872 #	X= 0 off 1 on	0	P

8800 ÷ 8829	Authorised codes	* 88XN * Code # * 88XN * # * 88XN #	X= 0 local area codes 1 national area codes 2 international codes N=0-9 code index Code= up to 4 digits including *, # and flash	Empty	P
8950 ÷ 8959	Remote management numbers	* 895N * NUM # * 895N * # * 895N #	N=0-9 code index NUM= max. 26 digit including *, # and flash	Empty	P
8960 ÷ 8969	Emergency numbers	* 896N * NUM # * 896N * # * 896N #	N=0-9 code index NUM= max. 26 digit including *, # and flash	11, 80	P
8970 ÷ 8979	Relay remote operation numbers without password	* 897N * NUM # * 897N * # * 897N #	N=0-9 code index NUM= max. 26 digit including *, # and flash	Empty	P
8980 ÷ 8989	Automatic fax recognition numbers	* 898N * NUM # * 898N * # * 898N #	N=0-9 code index NUM= max. 26 digit including *, # and flash	Empty	P
910	Software version	* 910 #			N
920	Build date	* 920 #			P
930	Second password for extension	* 930 * EXT * Password # * 930 * EXT * # * 930 * EXT #	EXT= extension number of table index (preceded by 0) password= from 0 to 4 digits (excluding *, # and flash)	2011 a 2022	S
940	Main password	* 940 * Password # * 940 * # * 940 #	password= from 0 to 4 digits (excluding *, # and flash)	1000	P
944	Reset black list	* 944 #			P
955	Reset enabled classes	* 955 #			P
966	Reset companies and codes	* 966 #			P
977	Reset enabled codes	* 977 #			P
988	Reset system directory	* 988 #			P
999	Reset system	* 999 #			P

2 NUMBERING PLAN AND SHORT CODES TABLE

Code	Function or service
0	Engage local line
2	Include
9	Juggle
30	Book if busy
31	Park and resume
33	Flash on local line
34	Door phone
35	Open door from which call is received
36	Switchboard call CCC
37	Actuator 4
38	Pick-up
39	+000 to 099 (or end with #): Recall directory number
40	General call
41	Extension 1
42	Extension 2
43	Extension 3
44	Extension 4
45	Extension 5
46	Extension 6
47	Extension 7
48	Extension 8
49	Extension 9
50	Extension 10
51	Extension 11
52	Extension 12
55	Actuator 1
78	Conference
80	Engage free private line
81	Engage first PSNT local line
82	Engage second PSNT local line
83	Engage third PSNT local line
320	Do-not-disturb off
321	Do-not-disturb on
322	+n for 14 times: Do-Not-Disturb setup
323	+ext: Room monitor on and in use
324	+hh mm: Alarm on +99: Off +40: Query alarm
325	+ext: Timed divert
326	+ext: Immediate divert
327	+ext: Divert on busy
328	Paging - access to external amplifier (followed by ch.gen number) Paging - access to telephone speaker (followed by ext)
351	Door opener relay 1 // ATT2
352	Door opener relay 2 // ATT3
353	Door opener relay 3 // ATT4
731	Call group 1
732	Call group 2
733	Call group 3
734	Call group 4
735	Call group 5
736	Call group 6

737	Call group 7
#610	Manual divert to external line (bridge)
#615	Class override code
#620	Voicemail call-back off
#621	Voice call-back + line code on
#622	Query voicemail call-back
#623	Night service off (if shortcut is enabled)
#624	Night service on (if shortcut is enabled)
#625	Check night service
#627	Follow-me
#628	Query switchboard night service
#630	Door phone follow-me off
#631	Door phone follow-me on + line code
#632	Query door phone follow-me
#641	Answering machine or fax capture
#650	Query time
#660	Call divert off
#661	Call divert + line code on
#662	Query call divert
#670	Divert out on
#671	External divert + line code on
#672	Query divert out
#792	Call-back
#900	Test mode
#901	Relay test mode

3 PARAMETER EXTENSION TABLE

Configure extensions	41	42	43	44	45	46	47	48	49	50	51	52
Engage now												
Clearing time												
R button time												
Warning tone												
Include												
Day ringer												
Night ringer												
Telephone type												

Classes												
Day enabled												
Night enabled												
Day door phone connection												
Night door phone connection												

Outbound lines												
Lines 1												
Lines 2												
Lines 3												

Inbound lines												
Line 1												
Line 2												
Line 3												

Reply on absence												
Line 1												
Line 2												
Line 3												

4 EXTERNAL LINE FEATURES TABLE

Line parameters	Line 1	Line 2	Line 3
Day DISA/fax			
Night DISA/fax			
Sat/Sun DISA/fax			
Off/on			
Local/Private / Door phone			
LCR			
Fax message			
Relay activation based on CLI			

Select DISA message			
Day Mon/Fri	Message 1		
Night Mon/Fri	Message 2		
Sat/Sun	Message 3		
Wildcard	Message 4		

Wildcard DISA message			
Off/On			
DISA reply rings			
Number of rings before reply			

DISA number of rings			
Number of rings before reply			

5 AUTHORISED NUMBER OR CODE TABLE

Parameters		Authorised number or area code (max. 4 digits)
880 (Local area codes)	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
881 (National area codes)	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
882 (International codes)	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	

6 AUTHORISED COMPANY TABLE

Management	Code parameters (4 or 5 digits)
8000 (Company 1)	
8001 (Company 2)	
8002 (Company 3)	
8003 (Company 4)	
8004 (Company 5)	
8005 (Company 6)	

Parameters	Authorized number or area code (max. 4 digits)
801 (Company 1)	0
	1
	2
	3
	4
	5
	6
	7
	8
	9
802 (Company 2)	0
	1
	2
	3
	4
	5
	6
	7
	8
	9
803 (Company 3)	0
	1
	2
	3
	4
	5
	6
	7
	8
	9

Parameters	Authorized number or area code (max. 4 digits)
804 (Company 4)	0
	1
	2
	3
	4
	5
	6
	7
	8
	9
805 (Company 5)	0
	1
	2
	3
	4
	5
	6
	7
	8
	9
806 (Company 6)	0
	1
	2
	3
	4
	5
	6
	7
	8
	9

7 DOOR PHONE CODES TABLE

Parameter	Door phone code	Default code	New programmed code
78 3	34	34	
78 4	35	35	
78 5	36	36	
78 6	37	37	
78 7	# 34	34	

8 NUMBERS TABLE FOR RELAY ACTIVATION

Position	Number
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	

9 CODES TABLE OF DOMUS CELL GSM INTERFACE AUTOMATIC ROUTING

TRUNK LINE	Position	Code	Routing
1	0		
	1		
2	0		
	1		
3	0		
	1		

10 TABLE OF EXTENSION LINES AND RINGS FOR SEQUENTIAL CALL

			Rings	41	42	43	44	45	46	47	48	49	50	51	52
Line 1	Day	Step 1													
		Step 2													
		Step 3													
	Night	Step 1													
		Step 2													
		Step 3													
Line 2	Day	Step 1													
		Step 2													
		Step 3													
	Night	Step 1													
		Step 2													
		Step 3													
Line 3	Day	Step 1													
		Step 2													
		Step 3													
	Night	Step 1													
		Step 2													
		Step 3													

11 TONES

Tone channels to extensions	Timing	Meaning
Dial tone	two-tone constant	the switching is ready to dial
Dial tone 2	200ms/200ms/200ms/200ms	a service is on (follow-me, do-not-disturb, divert)
Call divert	1000ms/4000ms	call forwarded to the required extension
Busy	500ms/500ms	the extension is busy
Deterrent	100ms/100ms denied	the extension is off hook, delay in dialling, access denied
Unavailable or congested	200ms/200ms	unavailable hardware resources
Confirmation	100ms/100ms/100ms/100ms/100ms/1500ms	required service accepted
Warning	100ms/5000ms	external call to busy extension
Door phone warning	100ms/100ms/100ms/6000ms 100ms/100ms/100ms/100ms/100ms/5800ms. 100ms/100ms/100ms/100ms/100ms/100ms/100ms/100ms/5600ms	door phone call to busy extension (bell 1) door phone call to busy extension (bell 2) door phone call to busy extension (bell 3)
Include	200ms/200ms/200ms/1400ms	an authorised extension is included in the call
On-hold	200ms/200ms/200ms/3400ms	the extension has been put on-hold
Conference	200ms/9800ms	a conference call is in progress

12 CALL AND INDICATION TIME TABLE

Call	Timing
Internal	600ms/250ms/250ms/2900ms
External	1000ms/4000ms
On-hold call back	1000ms/4000ms
General	600ms/250ms/250ms/2900ms
External divert	1000ms/4000ms
Door phone bell 1	250ms/500ms/250ms/500ms/250ms/3100ms
Door phone bell 2	250ms/500ms/250ms/500ms/250ms/500ms/250ms/2350ms
Door phone bell 3	250ms/500ms/250ms/500ms/250ms/500ms/250ms/500ms/250ms/1600ms
Booking	250ms/250ms/250ms/250ms/250ms/3900ms

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TECHNICAL SPECIFICATIONS

Maximum capacity of the telephone switchboard:

- External lines 3
- Extensions 12
- Door phone riser 1
- Door phone bells 3
- Simultaneous external calls 3
- Simultaneous internal calls 6
- Internal, external and door phone calls 8

Power:

- Network voltage 230Vac \pm 10%
- Maximum draw 28VA
- Voltage output by power unit +3.3V +12V +24V (Vdc) 60Vac

Dialling system:

- DTMF
- R button (Flash) reading time 100 - 900 ms (programmable)

Switchboard generated tones:

- 425Hz \pm 25Hz
- 350Hz \pm 15Hz

Internal lines:

- Maximum distance between extensions 500 m
- BCA extension connection 2 wires, 0.6 mm²
- System extension connection 4 wires, 0.6 mm²

Mechanical characteristics:

- Weight: 1.650 kg (including all boards)
- Installed dimensions 231 X 218 X 55 mm (L X H X D)

Operating environmental conditions:

- Working temperature range 0° C - 40° C
- Relative humidity 20% - 80% without condensation

PABX 3/12 connector		System cable colour	Cable
Extension 1	DER 1		
Data line 1	SE1 +		
	SE1 -		
Extension 2	DER 2		
Data line 2	SE1 +		
	SE1 -		
Extension 3	DER 3		
Data line 3	SE1 +		
	SE1 -		
Extension 4	DER 4		
Data line 4	SE1 +		
	SE1 -		
Extension 5	DER 5		
Data line 5	SE1 +		
	SE1 -		
Extension 6	DER 6		
Data line 6	SE1 +		
	SE1 -		
Extension 7	DER 7		
Data line 7	SE1 +		
	SE1 -		
Extension 8	DER 8		
Data line 8	SE1 +		
	SE1 -		
Extension 9	DER 9		
Extension 10	DER 10		
Extension 11	DER 11		
Extension 12	DER 12		

PABX 3/12 connector		System cable colour	Cable
External lines 1 LU1			
External lines 2 LU2			
External lines 3 LU3			
Serial connection	GND		
	TX		
	RX		
	DTR		
	CTS		
ATT1	NA		
	NC		
	COM		
4+N Door phone Interface	ATT2		
	ATT3		
	ATT4		
	CA1		
	CA2		
	CA3		
	6		
	1A		
	2		
Amplificator (OUT)	AMP		
External music (IN)	IN		
External power	12V		
Day/ Night	G/N		
Common	COM		
Modem			

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