Il prodotto è conforme alla direttiva europea 2004/108/CE e successive.
This product complies with the EC Directive 2004/108/CE and subsequent standards.
DESCRIPTION
Types 1284 and 1287 comprise respectively an electronic base unit for the assembling of two models of entrance panels.
1284 Electronic audio module with electronic name index, alphanumeric keypad and display.
1287 Electronic video module with colour camera, electronic name index, alphanumeric keypad and display.
Both modules (type 1284 and 1287) are equipped with a two line 16 character alphanumeric display and with an electronic name index for 200 users. Each user can be associated with 2 names consisting of 16 characters. An external CCTV type external camera can be connected to the audio entrance panel after configuring it as video as described in the paragraph “Hardware programming – Entrance panel programming modification”. The video colour entrance panels can be used indifferently either in black and white either in colour installations.

The above mentioned electronic units are to be used with plates and components of the 1200 series, separately sold.

Each push-button in the electronic units can generate different call codes with values from 1 to 200. The entrance panels are designed to operate either alone or with other entrance panels. In any event one must be set as a Master entrance panel and the others as Slave.

The front of the electronic unit (see Fig. 2) is fitted with the following adjustments:
1 Voice line balancing control
2 External volume
3 Internal volume

For the panel programming use the entrance panel keypad or the programming module type 950B.

The volume adjustment may cause the LARSEN effect (whistle); in this event operate on trimmer 1 (Balance) or decrease one or both volumes to avoid the whistle.

INSTALLATION
The assembling and the installation of the electronic units for the 1200 series plates require the following phases:
1- Define the plate for the electronic base unit and the possible additional plates (see page 3, components).
2- Define the back boxes and the frames for the surface wall-mount or flush-mount installation (see page 4, accessories).
3- Install the flush-mount or surface wall-mount back boxes with the upper edge at a height of approx. 1,65 m from the ground (Fig. 1).
4- Fix the terminal block to the back boxes.
5- Fix the terminal box of the base module to the module holder frame of the entrance panel.
6- Connect the terminal block to the system as shown in the wiring diagram.
7- Connect the electronic unit of the base module to the additional plates, if any, with name-tags.
8- Insert the electronic unit and the additional modules in the module holder frames of the entrance panels.
9- Insert the microphone of the electronic basic unit in the module holder frame of the entrance panel (Fig. 5, Part 1).
10- Program the entrance panel.
11- Insert the external plate of the electronic unit in the module holder frame and the additional entrance panels in the remaining module holder frames.
12- Close the panel.

STANDARD MODULES
The standard modules comprise: an electronic unit, a connection terminal block. The electronic unit is equipped with a speech unit, camera on video versions, wiring for terminal block connections and for connection of additional modules. The standard modules for video panels in colour are equipped with a b/w camera with ¼” CCD sensor and fixed 3 mm lens and white indicator LED. All panels with cameras can be tilted manually, horizontally or vertically, on removal of the plate.

Example of standard module with camera.

TERMINAL BLOCK

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>+1</td>
<td>Monitor shutdown control terminal.</td>
</tr>
<tr>
<td>S</td>
<td>Electric lock activation control terminal.</td>
</tr>
<tr>
<td>F2</td>
<td>Auxiliary function 2 activation control terminal.</td>
</tr>
<tr>
<td>F1</td>
<td>Auxiliary function 1 activation control terminal.</td>
</tr>
<tr>
<td>+L</td>
<td>Panel active terminal.</td>
</tr>
<tr>
<td>CH</td>
<td>Call signal activation control terminal.</td>
</tr>
<tr>
<td>8</td>
<td>Terminal for voice signal in building complex.</td>
</tr>
<tr>
<td>6</td>
<td>Terminal for digital signal in building complex.</td>
</tr>
<tr>
<td>V2</td>
<td>Video signal terminal.</td>
</tr>
<tr>
<td>M</td>
<td>Video signal earth terminal.</td>
</tr>
<tr>
<td>V1</td>
<td>Video signal input terminal.</td>
</tr>
<tr>
<td>5</td>
<td>+13.5Vdc supply voltage terminal.</td>
</tr>
<tr>
<td>4</td>
<td>Negative supply voltage terminal.</td>
</tr>
<tr>
<td>3</td>
<td>Terminal for voice signal to interphone/monitor cable riser.</td>
</tr>
<tr>
<td>1</td>
<td>Terminal for digital signal to interphone/monitor cable riser.</td>
</tr>
<tr>
<td>V</td>
<td>Video signal output terminal.</td>
</tr>
<tr>
<td>M</td>
<td>Video signal earth terminal.</td>
</tr>
<tr>
<td>VL</td>
<td>Terminal for use (option) with “self-protected” system (see page 13, point 26. See Variations on Page 35.</td>
</tr>
</tbody>
</table>
**HEIGHT OF 2-MODULE ENTRANCE PANELS**

- **Art. 122D**

**HEIGHT OF 3-MODULE ENTRANCE PANELS**

- **Art. 123D**

**ADDITIONAL ENTRANCE PANELS**

- **Art. 122N**
- **Art. 123N**

**FLUSH-MOUNTED BACK BOXES**

Case width 88mm for 1 horizontal module and 50 mm depth.

- **Art. 9092**
  - For 2 additional modules.
  - Height: 2 vertical modules (248 mm)

- **Art. 9093**
  - For 3 additional modules.
  - Height: 3 vertical modules (360 mm)
ALPHANUMERIC DISPLAY ENTRANCE PANELS: ACCESSORIES

RAINPROOF COVERS

1P21  for 1 panel
2 modules high

124 front side
120 rear side

1P22  for 2 panels
alta 2 moduli

124 front side
224 front side
220 rear side

1P23  for 3 panels
2 modules high

124 front side
224 front side
220 rear side

1P24  for 4 panels
2 modules high

124 front side
224 front side
220 rear side

1E21  for 1 panel
2 modules high

124 front side
120 rear side

1E22  for 2 panels
alta 2 moduli

124 front side
224 front side
220 rear side

1E23  for 3 panels
2 modules high

124 front side
224 front side
220 rear side

1E24  for 4 panels
2 modules high

124 front side
224 front side
220 rear side

SURFACE-MOUNTED BOXES WITH RAINPROOF COVER

1E31  for 1 panel
3 modules high

124 front side
120 rear side

1E32  for 2 panels
3 modules high

124 front side
224 front side
220 rear side

1E33  for 3 panels
3 modules high

124 front side
224 front side
220 rear side

1E34  for 4 panels
3 modules high

124 front side
224 front side
220 rear side
ENTRANCE PANEL WITH TRADITIONAL PUSH-BUTTONS: INSTALLATION

FLUSH-MOUNTED ENTRANCE PANEL INSTALLATION WITH RAIN-PROOF COVERS
Assembly of flush-mounted entrance panel requires the use of the flush-mounted back boxes type 9092, 9093 respectively for 2 or 3 electronic modules mounted vertically (Fig. 4A and 4B).

Installation:
- If the installation requires a combination of several back boxes, use the hooks supplied with the back boxes to secure them together (Fig. 8).
- Install the back box with the upper edge at a height of approx. 1.65 m from the ground (Fig. 1).
- Fix the terminal block of the electronic unit under the module holder frame by means of the screws supplied (Fig. 7).
- Fix the rainproof cover to the flush-mounted back box using the screws supplied (Fig. 7).
- Fix the module holder frames to the frames and the back boxes (Fig. 7).
- Connect the terminal box of the electronic unit to the system.
- Connect the electronic unit to the terminal block by means of the wiring on the upper section.
- Connect the additional modules, if any, and insert them.
- Insert the electronic unit.
- Insert the microphone in the lower right section of the module holder frame (Fig. 5).
- Pay attention that the microphone cables are inserted in the external slot of the electronic module (Fig. 5A, 5B).
- Close the entrance panel, attaching the plate first from the upper section and then securing the lower section by means of the special key on the head section.
- Perform the programming phases (Page 6).

SURFACE WALL-MOUNTED ENTRANCE PANEL INSTALLATION
Assembly of the surface wall-mounted entrance panel requires the use of the back boxes series 1Exx.

Installation:
- Fix the electronic unit terminal block under the module holder frame by using the screw provided (Fig. 8).
- Fix the module holder frames to the frames and back boxes (Fig. 8).
- Connect the terminal block of the electronic unit to the system.
- Connect the electronic unit to the terminal block by means of the cable present on the upper section (Fig. 2).
- Connect the additional modules, if any, and insert them.
- Insert the electronic unit.
- Insert the microphone in the right lower section of the module holder frame (Fig. 5).
- Pay attention that the microphone cables are inserted in the external slot of the electronic module (Fig. 5A, 5B).
- Insert the module plates in the module holder frames (Fig. 8).
- Close the entrance panel, attaching the plate first from the upper section and then securing the lower section by means of the special key on the head section.
- Perform the programming phases (Page 6).
PARAMETERS FOR PROGRAMMING

PRELIMINARY OPERATIONS
Having installed and connected all the devices, power up the system and check the LEDs on the power supply units to make sure that they all supply power. Before carrying out any programming operations on the devices, wait for at least ten seconds from the moment at which the system is powered up.

It is advisable to programme the call codes of the telephones and monitors after programming (if required) the technical parameters of the entrance panels and/or switchboard.

PROGRAMMING THE TECHNICAL PARAMETERS OF THE ENTRANCE PANEL
The entrance panel is supplied with a basic programme already loaded, which can be modified according to the instructions below. Programming must be carried out if the pre-set parameters do not meet the requirements of the system. There are three ways of programming the entrance panel: with the entrance panel keypad, with programmer Type 950B and with a Personal Computer by means of the software Type 94CT and interface 6952.

Programming the entrance panel with the numerical keypad (with entrance panel connected and powered up):

A) Entry to programming mode with the entrance panel keypad using the password.

Cancel all operations by pressing ; the display must be OFF. While keeping " " pressed down, press " ". When the symbols " - - - - - - " appear on the display, enter the code "123 or 0123" (standard password) and press " ". If the operation has been carried out correctly, the message "PROGRAM" will appear on the display. If it does not appear, repeat the procedure.

B) Direct entry to programming mode for programming with the entrance panel keypad (if you have lost the password).

Disconnect the entrance panel from the terminal block, wait for 2-3 seconds, then press the " " and " " push-buttons at the same time and power the installation again. After few seconds, if the operation has been carried out correctly, the message "PROG." appears on the display. If this does not happen, repeat the operation.

Once you have entered the programming phase, press " " to go to the first parameter ("INITI_US" = "Initial User"). The display will show the parameter name "Final User " (e.g. 0000 0001). To modify the value, use the number keys; if you make a mistake, use the number keys only to correct the value entered. To confirm the change, press " ". Pressing only the " " key does not change any saved parameters, but displays the set values one after the other. On completion of programming, press " " followed by the push-button " " to exit the technical programming phase.

The parameters can be programmed or consulted repeatedly.

The set values remain in the memory until they are programmed again (if applicable) even if the power is switched off.

PROGRAMMING WITH Type 950B: (refer to the relevant manual for a complete description)
With the entrance panel powered up, disconnect 950B (by means of terminals 1, 4 and 5), select "PROG.PARAMETERS" from the menu and press " " to confirm. The entrance panel then goes immediately into programming mode, the message "Ser.PROG" appears on the display and the panel emits a short acoustic signal (it is not necessary to carry out operations on the entrance panel to access programming). To scroll through the parameters (without changing them) press " " or the "down" arrow key repeatedly. Change the number on the display if necessary and press " " to confirm. To complete programming, press " EXIT " and make a call to verify that the entrance panel has exited programming mode.

PROGRAMMING WITH SOFTWARE ON PC Type 94CT "ANALYZER"

By means of a graphic interface, the software enables you to simultaneously display/modify all the relevant parameters. It also enables you to save the programmes you set for the purpose of filing or future replacements (and for rapid, multiple programming). For user instructions, refer to the relevant manual.

N.B.: the term optional indicates that parameter modification is not necessary, but is left to the installer's discretion (e.g. conversation time, codes for door lock release etc.).
<table>
<thead>
<tr>
<th>No.</th>
<th>Parameter</th>
<th>Abbreviation on programmer display</th>
<th>Minimum value</th>
<th>Maximum value</th>
<th>Default value</th>
<th>Description</th>
<th>When to change the value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Initial User</td>
<td>Initial User</td>
<td>1</td>
<td>9999999999</td>
<td>1</td>
<td>Lowest call number (filter on the codes)</td>
<td>Required in building complexes.</td>
</tr>
<tr>
<td>2</td>
<td>Final User</td>
<td>Final User</td>
<td>1</td>
<td>9999999999</td>
<td>0</td>
<td>Highest call number (filter on the codes)</td>
<td>Required in building complexes.</td>
</tr>
<tr>
<td>3</td>
<td>Panel number</td>
<td>Panel number</td>
<td>0</td>
<td>9999999999</td>
<td>0</td>
<td>Identification/call number of the panel (for calls/analytics from switchboard)</td>
<td>In systems with porter switchboard and several electronic entrance panels.</td>
</tr>
<tr>
<td>4</td>
<td>Not used</td>
<td>Panel number</td>
<td>0</td>
<td>9999999999</td>
<td>0</td>
<td>Not used</td>
<td>Not used</td>
</tr>
<tr>
<td>5</td>
<td>Tecnic. Prg. Key</td>
<td>Tecnic. Prg. Key</td>
<td>1</td>
<td>9999999999</td>
<td>123</td>
<td>Password for access to technical programming</td>
<td>Required in all cases. parameters programming with the “R + C” function.</td>
</tr>
<tr>
<td>6</td>
<td>Rubric. key</td>
<td>Rubric. key</td>
<td>Not used</td>
<td>Not used</td>
<td>Not used</td>
<td>Rubric. key Not used</td>
<td>Not used</td>
</tr>
<tr>
<td>7</td>
<td>Code for door release</td>
<td>Key</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>Password for door release from Optional key 0 = 0, 1 = R+1, 2 = C.</td>
<td>Optional</td>
</tr>
<tr>
<td>8</td>
<td>Audio active</td>
<td>Audio active</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>When the parameter is set to 0, the entrance panel switches off the audio completely Optional, but only for building complexes.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Language</td>
<td>Language</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>(0 = Italiano, 1 = English). Optional.</td>
<td>Optional</td>
</tr>
<tr>
<td>10</td>
<td>Enables entrance panel operation</td>
<td>Entrance panel operation</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>Enables operation of the entrance panel</td>
<td>Optional</td>
</tr>
<tr>
<td>11</td>
<td>Enables priority</td>
<td>Priority Enable</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>Entrance panel with priority Optional, but only for entrance panels in parallel.</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Lock Enable</td>
<td>Lock Enable</td>
<td>0</td>
<td>4</td>
<td>1</td>
<td>Enables the door lock activation: Optional 1 = the door lock is activated only by the interphone called by the respective entrance panel. 2 = The door lock is activated in sequence with that of a main entrance panel. The panel must be placed between the main entrance panel and the called interphone. 3 = Enables both points: 1 and 2. 4 = The door lock is activated in any case, also when the interphone has not been called. 6 = Function 4 + Function 2</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Enables camera</td>
<td>Camera Enable</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>Indicates whether the entrance panel is fitted with a camera (0 = No, 1 = Yes). Required with entrance panels supplied with internal or external camera.</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Enables sound on</td>
<td>Sound Pan. Ena.</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>Enables repetition of the call sound on panel Optional the panel itself (0 = No, 1 = Yes).</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Enables self-start</td>
<td>Autostart Ena.</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>Enables self-activation of the monitor/interphone by means of commands F3, F4 and F5. Add the values of F3, F4 and F5 to indicate which functions enable self-start (0 = No, 1 = F3, 2 = F4 and 4 = F5). With 7=f1+2+4 switches on automatically with F3, F4 and F5. Optional.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Not used</td>
<td>Not used</td>
<td>Not used</td>
<td>Not used</td>
<td>Not used</td>
<td>Enables</td>
<td>Not used</td>
</tr>
<tr>
<td>17</td>
<td>Enables conference</td>
<td>Conferen. Enable</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>Enables activation of conference between the entrance panel and 2 interphones/monitors (the second interphone/monitor is called with the “*” key). To be used only for diagnostic.</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Enables call to switchboards</td>
<td>Call Cent. Enab.</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>Enables calling to main switchboards with respect to the entrance panel. (by pressing the key ☰.) Optional.</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Duration of conversation</td>
<td>Convers. time</td>
<td>1</td>
<td>255</td>
<td>12</td>
<td>Maximum conversation time (in seconds x 10, i.e. 12 = 120 seconds). Optional.</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Duration of ringtone</td>
<td>Ring Dutration</td>
<td>1</td>
<td>255</td>
<td>1</td>
<td>Activation time of call signal (in seconds). Optional.</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Answer time</td>
<td>Answer time</td>
<td>1</td>
<td>255</td>
<td>30</td>
<td>Maximum waiting time for reply (in seconds). Optional.</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>F1 function time</td>
<td>F1 time</td>
<td>0</td>
<td>255</td>
<td>1</td>
<td>Activation time of function F1 (in seconds). If set to 0, activation is reduced to 0.5 sec. Optional.</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>F2 function time</td>
<td>F2 time</td>
<td>0</td>
<td>255</td>
<td>1</td>
<td>Activation time of function F2 (in seconds). If set to 0 activation time is reduced to 0.5 sec. Optional.</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Door lock time</td>
<td>Lock time</td>
<td>0</td>
<td>255</td>
<td>1</td>
<td>Lock activation time (in seconds). If set to 0, activation is reduced to 0.5 sec. Optional.</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>End of conversation</td>
<td>End Conv. P. Tim.</td>
<td>0</td>
<td>255</td>
<td>0</td>
<td>End of conversation warning: after a call from an entrance panel with priority, the existing communication receives a warning that it is about to be interrupted, and is suspended after the the set number of seconds (0 = no warning). Optional.</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Counter</td>
<td>Error Counter</td>
<td>0</td>
<td>255</td>
<td>0</td>
<td>Enables “initial user” - “final user” filter also for data in transit from terminal 1 to terminal 6 of the entrance panel (0 = No, 1 = Yes). Optional, but only for building complexes.</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Enables display of the control parameters</td>
<td>Debug Visi. Ab.</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>Enables the debug messages on the entrance panel display (0=No, 1=Yes) Optional.</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Not used</td>
<td>Not used</td>
<td>Not used</td>
<td>Not used</td>
<td>Not used</td>
<td>Enables</td>
<td>Not used</td>
</tr>
<tr>
<td>29</td>
<td>Reserved parameter</td>
<td>Reserved Param.</td>
<td>0</td>
<td>255</td>
<td>1</td>
<td>Reserved parameters can be displayed by entering a secret code. As indicated by the manufacturer.</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Coded door lock release</td>
<td>Key lock N’001</td>
<td>0</td>
<td>9999999999</td>
<td>0</td>
<td>Memory location for 1st door release Optional. code.</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Coded door lock release</td>
<td>Key lock N’002</td>
<td>0</td>
<td>9999999999</td>
<td>0</td>
<td>Memory location for 2nd door release Optional. code.</td>
<td></td>
</tr>
</tbody>
</table>
## PARAMETERS FOR PROGRAMMING

<table>
<thead>
<tr>
<th>No.</th>
<th>Parameter</th>
<th>Abbreviation on programmer display</th>
<th>Minimum value</th>
<th>Maximum value</th>
<th>Default</th>
<th>Description</th>
<th>When to change the value</th>
</tr>
</thead>
<tbody>
<tr>
<td>68</td>
<td>Coded door lock release</td>
<td>Key lock N°36 00000000</td>
<td>0</td>
<td>99999999</td>
<td>0</td>
<td>Memory location for 36th door release</td>
<td>Optional.</td>
</tr>
<tr>
<td>69</td>
<td>Activation F2</td>
<td>Code F2 00000000</td>
<td>0</td>
<td>99999999</td>
<td>0</td>
<td>Memory location for code of the F2 output activation</td>
<td>Optional.</td>
</tr>
<tr>
<td>70</td>
<td>Activation F2</td>
<td>Code F2 00000000</td>
<td>0</td>
<td>99999999</td>
<td>0</td>
<td>Memory location for code of the F2 output activation</td>
<td>Optional.</td>
</tr>
<tr>
<td>71</td>
<td>1st number in memory</td>
<td>Door lock key 00000000</td>
<td>0</td>
<td>99999999</td>
<td>0</td>
<td>This is a pre-saved preferential number which can be associated with the pressing of key</td>
<td>Optional.</td>
</tr>
<tr>
<td>72</td>
<td>2nd number in memory</td>
<td>2nd number in memory 00000000</td>
<td>0</td>
<td>99999999</td>
<td>0</td>
<td>This is a pre-saved preferential number which can be associated by pressing of the key</td>
<td>Optional.</td>
</tr>
</tbody>
</table>
Description of functions:

- **Initial User “INITIAL USER” (1) and Final User “FINA_US” (2).** To be programmed in the case of a system for a building complex. The two values must be set only on the secondary entrance panels. These two parameters serve to switch the secondary entrance panel to the engaged state when a call is being made from another entrance panel or from a switchboard with the number in between the lowest and the highest number. The call must originate from a main entrance panel or from a switchboard and not from another secondary entrance panel. When the entrance panel is in the engaged state, no operations can be performed. If the call number is not between the lowest and the highest number, the secondary entrance panel does not go into the engaged state and it is therefore possible to make calls to the riser.

- **Entrance panel code “FINAL USER” (3).** This is the code called to assign to the entrance panel (similar to the interphone code). It does not need to be set on systems with 4-digit coding. It may be necessary to programme this code in the following cases:
  1. On systems for building complexes consisting of secondary entrance panels and a 945B switchboard, when you want to make calls from the secondary entrance panels (upstream) to the porter switchboard. In this case it is possible to call back the secondary entrance panel from the switchboard and communicate.
  2. When you want to use the entrance panels in conjunction with the “Software” switchboard (Type 95CD). In this case, it is possible to activate the various functions from the switchboard (door release, F1, F2, etc.) on each entrance panel in the system. It is also possible to analyse (and change) the individual parameters of each panel from the switchboard.

**NB:** In either case, bear in mind that the entrance panel number must be unique and different from the call codes of the interphones and monitors.

- **Technical programming code “TECNIC. PRG. KEY” (5).** It is advisable to change this value. This is the number that is requested when you enter the technical parameter programming phase using the entrance panel keypad. If the value is set to “0000” the entrance panel goes automatically into programming by pressing 
  - 
  and simultaneously. To enter the programming phase press 
  - 
  simultaneously, enter the password (e.g. 0123) and press 

- **Agenda programming code “RUBRIC. KEY” (6):** This is the password to be entered to enable access to the name entry/deletion functions. This should be different from the program password given the different users involved. The number range is 1 to 9999. The default setting is 222.

- **Code for door release “KEY 0, R-1, C” (7).** To be programmed at your discretion. Indicates the way in which you want to control the entrance panel in the correct way.

  1. With display OFF and entrance panel not in communication, press 
  2. With display OFF and entrance panel not in communication, press 

- **Language “ENGLISH LANG.” (9).** To be programmed at your discretion. The function refers to the displayed messages language. If the parameter is set to 0, the messages are displayed in English, otherwise in Italian.

- **Enable entrance panel operation “PANEL BLOCK” (10).** To be programmed at your discretion. If the parameter is set to “1”, this prevents calls from being made to the monitor/interphone riser covered by the entrance panel.

- **Enable priority “PRIORITY ENAB” (11).** To be programmed at your discretion in the case of a system with entrance panels in parallel. By activating this function, the entrance panel does not go into the engaged state when another entrance panel, in parallel with the first, makes a call. In this state, the entrance panel with priority can interrupt a conversation in progress to make another call. This function only affects entrance panels connected in parallel; with each other; for systems for building complexes the secondary entrance panels still go into the engaged state if the call originates from a main entrance panel or a switchboard.

- **Enable sequential lock “LOCK ENABLE” (12).** To be programmed in the case of a system for a building complex. The function refers to secondary entrance panels. If enabled, this makes it possible to activate the terminal “S” for door release on the secondary entrance panel, when a monitor or an interphone sends the door release code while in conversation with the main entrance panel. This then enables activation of both the door release for the secondary entrance panel and the door release for the main entrance panel. Adding 2 to this value also enables the possibility of door release “from below” (e.g. from an underlying switchboard in communication with the entrance panel itself).

- **Enable camera “CAMERAS ENABLE” (13).** To be programmed with type 8847, 8847/C entrance panels. Indicates that the entrance panel is a video version of video type equipped with a camera. This enables management of correct monitor activation and shutdown of the monitors in the system in the correct way.

- **Enable sound in entrance panel “SOUND PAN. ENA.” (14).** To be programmed at your discretion. When enabled, this function activates an acoustic signal emitted by the entrance panel when a call is sent.

- **Enable self-start “AUTOSTART ENA” (15).** Enables the entrance panel itself to be self-activated by an interphone/monitor. To operate in this mode, the interphone/monitor must be configured with the appropriate key and the entrance panel must have the 8-digit “coding system” parameter.

  In this case the self-start key, on the interphone/monitor (which enables self-start on a maximum of 3 different entrance panels), sends the commands sequentially each time it is pressed, the commands F3, F4 and F5; i.e. the first press sends the F3 command (and emits the confirmation sound), the second press sends the F4 command (emitting 2 sounds) and the third press sends the F5 command (3 sounds). If you press the key again, the sequence repeats itself (NB: 30 seconds after pressing the key, the sequence returns to its initial state, i.e. F3 command). To enable the self-start function according to one of the commands F3, F4 and F5 or according to a combination of the three, assign to the parameter the values set out in the table below.

<table>
<thead>
<tr>
<th>Parameter “AUDIO ACTIVE” (8)</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0, 1 default) 1 To be modified optionally only for building complexes. To be modified only for particular uses. Normally (value = 1) the entrance panel in rest mode is set to “audio active” (i.e. ready to communicate on audio mode). When the parameter is set to 0, the entrance panel switches off the audio completely (this is useful only when more entrance panels are installed and connected in parallel and to be used with a switchboard or during the interphone programming, to avoid the Larsen effect owing to the simultaneous activation of more entrance panels).</td>
<td>Command parameter value</td>
</tr>
<tr>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>1</td>
<td>F3</td>
</tr>
<tr>
<td>2</td>
<td>F4</td>
</tr>
<tr>
<td>3 (1+2)</td>
<td>F3 and F4 (with either F3 or F4)</td>
</tr>
<tr>
<td>4</td>
<td>F5</td>
</tr>
<tr>
<td>5 (1+4)</td>
<td>F3 and F5 (with either F3 or F5)</td>
</tr>
<tr>
<td>6 (2+4)</td>
<td>F4 and F5 (with either F4 or F5)</td>
</tr>
<tr>
<td>7 (1+2+4)</td>
<td>F3, F4, F5 (with either F3, F4 or F5)</td>
</tr>
</tbody>
</table>
- Enable conference "CONFERENCE. ENAB." (17). Enabling this parameter allows the entrance panel to call several interphones simultaneously. In this case, the first interphone will be called with the code followed by the "*" key, and the others must be called by keying in the codes followed by the "*" (asterisk) key.

- Enable call to switchboards "CALL CENT. ENAB." (18). This parameter affects systems for building complexes with 8-digit coding (parameter "B") and with porter switchboard Type 945B. If enabled on secondary entrance panels, it allows entrance panels to call a switchboard located "downstream" of the entrance panels (the entrance panels in question are those with terminals 6-8 connected to the switchboard). The other relevant parameters are the entrance panel code (parameter No. 3) and the corresponding parameter of the switchboard Type 945B. To call the switchboard press "double arrow down" key, which will, in turn, call the relevant entrance panel.

- Duration of conversation "CONVERS. TIME" (19). To be programmed at your discretion. This is the time, expressed in tens of seconds (e.g.: 12=120 sec), which the entrance panel controls from the moment at which the handset is picked up after the call. On expiry of this time, the entrance panel switches off the interphone.

- Duration of ringtone "RING DURATION" (20). If the system includes secondary entrance panels (building complex) or a switchboard, the activation time of the call signal of the main entrance panel must be greater than 1 second compared with the corresponding time, set on the secondary entrance panels or the switchboard. In other cases, the parameter can be changed at the discretion of the installer. This parameter represents the time, expressed in seconds, for which the entrance panel activates the terminal CH. Terminal CH activates the call generator in the power supplies Type 6941 and 6948.

- Answer time "ANSWER TIME" (21). To be programmed at your discretion. This is the time, expressed in seconds, for which the entrance panel waits from the moment at which the call is terminated to the moment at which the handset of the interphone is picked up. If the handset is not picked up within the reply time, the entrance panel switches off the interphone.

If, however, the handset is picked up before the time expires, the entrance panel starts counting the conversation time (see parameter 19 "Duration of conversation").

- Function time F1 "F1 TIME" (22). To be programmed at your discretion. This is the time, expressed in seconds, for which the entrance panel activates terminal F1. Terminal F1 serves to activate a relay connected to terminals R1 and 4 of the power supplies Type 6941, 6942 and 6948.

- Function time F2 "F2 TIME" (23). To be programmed at your discretion. This is the time, expressed in seconds, for which the entrance panel activates terminal F2. Terminal F2 serves to activate a relay connected to terminals R2 and 4 of power supplies Type 6941, 6942 and 6948.

- Door lock release "LOCK TIME" (24). To be programmed at your discretion. This is the time, expressed in seconds, for which the entrance panel activates terminal S. Terminal S serves to activate the lock connected to terminals 15 and S1 of the power supplies Type 6941, 6942 and 6948.

- End of conversation warning time "END CONV. TIM" (25). This function regards systems to systems for building complexes. The parameter indicates the time, in seconds, that elapses from the call of a main entrance panel to the interruption of a conversation in progress on a secondary entrance panel. Interruption of the conversation will be indicated by an acoustic signal and the message "END CON" before going into the engaged state. NB: in normal use it is advisable to leave the parameter at 0.

- Number of digits in pre-code "ERROR COUNTER" (26). The parameter determines the number of digits (maximum 4) to be used for the pre-code in reference to parameter "B".

- Enables the window above "UP WINDOW ENA" (27). If the parameter is enabled, the parameters "initial user" (1) and "final user" (2) are used for filtering the codes descending from terminal 1 to terminal 6 of the secondary entrance panels. This function is for use in systems for building complexes in which there are several secondary entrance panels connected in double parallel (as well as the connection of terminals 1, terminals 6 are also connected). Connection in double parallel is necessary so as to make it possible to make calls from all the secondary entrance panels to the switchboard Type 945B. On secondary entrance panels in double parallel the parameter must be set to 1 on all the panels except for one, which must be kept at 0. Enabling of this parameter means that the "initial user" (1) and "final user" (2) parameters of each secondary entrance panel must be duly modified: the secondary entrance panels with the parameter 27 to 0 must have the parameters "initial user" (1) and "final user" (2) set in accordance with the lowest and highest numbers of the interphones (as for normal use), while for the secondary entrance panels with the parameter 27 to 1, they must have the parameters "initial user" (1) and "final user" (2) respectively coinciding with the parameter "entrance panel code" (3).

- Enable display of control parameters "DEBUG VISU. AB" (28). If enabled, this parameter makes it possible to show diagnostic messages on the entrance panel display. The messages are activated in response to calls, door release, activation of functions, etc. Enabling the debug can be very useful for checking the reception of "digital" commands from and to the entrance panel, and in general, for checking the connected devices (e.g. by pressing the call key of an interphone above, if the call is successful, reception of the command is shown on the display).

- Reserved parameter "RESERVED PARAM" (30). This parameter makes it possible to enable the display of further parameters reserved for special uses. The parameter must only be changed if instructed by the manufacturer.

- Coded door lock "KEY LOCK N..." (31, 32, .....68). To be programmed at your discretion. In these 20 parameters it is possible to save 20 different codes of 8 digits each, to release the door from the entrance panel. First use the 0 key or the and 1 keys or the key (see parameter 7) to activate the function, then key in one of the saved codes to activate terminal "S" on the entrance panel.
PARAMETERS FOR PROGRAMMING

Coding F1 “F1 CODE” (69). As above, but as the code has been entered, the F1 output is activated in the memory.

Coding F2 “F2 CODE” (70); As above, but as the code has been entered the output F2 is activated in the memory. Number of memory (F1, F2). To be programmed at will. In these two parameters it is possible to store two different codes consisting of 8 digits each in order to effect calls in a quick way by using the “arrow up” and “arrow down” panel push-buttons.

“1 MEMO NUMBER” (71): Enable switchboard call: if set to = 1 enables recall of a switchboard (using “”).

“2 MEMO NUMBER” (72): Number in memo: if other than 0 enables the association of a number for immediate calls (using the “”).

KEYPAD DESCRIPTION
Keys 0 - 9 DIAL NUMBER: serve to dial the user number for calls and change the values of technical parameters during entrance panel programming.

Key RESET: serves to cancel and interrupt each conversation. The key is also used to exit the technical programming phase.

Key USER CALL: serves to send the call after dialling the number. In the technical programming phase, the key is used to confirm the changes made and move onto the next parameter.

If the following conditions are met, the key can also be used to access the door release function from the entrance panel. The conditions are: parameter “7” must be “2”, the entrance panel must not be in communication with an interphone and the display must be OFF.

Key Asterisk: Conference call key, enables simultaneous communication with 2 interphones/monitors and the entrance panel. To use this function, refer to parameter “17”.

Key During the search phase from the name list, it scrolls to the previous name.

Key During programming of the technical parameters, enables you to move from the 1st parameter (initial user) to the 31st parameter (coded door lock). It is also possible to assign a pre-saved number to this key for rapid calling. In this case, the name-tag must show the name of the corresponding interphone.

Key During the search phase from the name list, it scrolls to the next name.

Key During programming of the technical parameters, enables you to move from the 1st parameter (initial user) to the 31st parameter (coded door lock). The key is also used for calling the porter switchboard Type 945B if the parameter “18” is enabled. It is also possible to assign a pre-saved number to this key for rapid calling. In this case, the name-tag must show the name of the corresponding interphone.

Key DOOR RELEASE FROM ENTRANCE PANEL:
If the following conditions are met, the 0 key can also be used to access the door release function from the entrance panel. The conditions are: parameter “7” must be “0”, the entrance panel must not be in communication with an interphone and the display must be OFF.

Keys and DOOR RELEASE FROM ENTRANCE PANEL:
If the following conditions are met, pressing keys R and 1 simultaneously gives access to the door release function from the entrance panel. The conditions are: parameter “7” must be “1”, the entrance panel must not be in communication with an interphone and the display must be OFF.

Keys and ENTRY TO PROGRAMMING: when pressed simultaneously, these keys give access to the technical programming phase.

ENTRANCE PANEL OPERATION
Call from entrance panel to user; on the keypad, dial the number of the user in question and press “”. When you press “” the entrance panel will send the call to the interphone. If parameter “14” is enabled, the call signal sent to the interphone will be repeated by the entrance panel receiver. On completion of the call, the entrance panel will start to count down the reply time (parameter 21), until the handset of the interphone is picked up. On expiry of the time, the entrance panel will disconnect automatically from the interphone. If the handset is picked up before the reply time expires, the entrance panel will go into communication with the interphone for the full conversation time (parameter 19). If the handset is hung up before the conversation time expires, the entrance panel will disconnect from the interphone after about 5 seconds. To open the entrance panel lock, from the interphone or from the monitor or from the switchboard, press the key marked with the symbol . Bear in mind that the lock can only be opened when the entrance panel is in communication with an interphone or the switchboard; whereas the auxiliary functions can be activated regardless of whether the entrance panel is in communication or not. If you want to interrupt any operation from the entrance panel, use the “” key.
1) GENERAL OPERATION:

INTRODUCTION: Type 8847 (digibus video entry panel with agenda) and type 8844 (digibus audio entry panel with agenda) enable calls to any digibus number (exclusively for 8 digit systems) both by entry of the number and searches of stored numbers (in a previously memorised data-base).

The maximum number of names is approx. 600 (extendible on request), with 16 characters available for each name (the name can be separated into surname and name, but always within a maximum of 16 characters). It is also possible to associate several names to call the same number (such as the names of husband and wife).

A number of accessory data can also be associated with each name (see below for relative use).
- A search for names can be via sequential scroll keys (forward/back) or, the faster option, by entry of the initial letter of the name.
- Once the name is found, the user displayed can be called immediately without having to re-enter the number.
- The numerical keypad can also be used to directly enter the required user number (if known).
- The insertion/cancellation of names may be made directly from the keyboard (on entry of a password) or by means of a software with type 6952. In this case the module is connected to the PC serial supplied by means of a suitable interface (type 6952) connected between terminals 4 and 1.
- The database management software, as well as enabling simple and rapid management of data, offers the following main functions:
  - Intuitive and fast use thanks to the evolved graphic interface (similar to “Windows”)
  - Entry, deletion and modification of one or more users.
  - Storage of data of specific files on the PC.
  - Safety: in the event of damage to the switchboard, data can be restored at any moment with no waste of time.
  - Possibility of repeating the same settings on multiple switchboards without the need of re-entering the database.
  - Reading of data by switchboard with recovery also of data entered manually.
  - Possibility of entering additional information as a description (notes) [to be completed]

2) BASE STATUS:
The status in which the agenda is in the rest condition. In this status, the display shows the following 2 messages alternately.

![ENTER NUMBER AND PRESS.](image)

As these messages convey, these keys (which are pressed and automatically at the end of each notification) from this status the number to be called can be entered directly by pressing , the user can search the agenda to find or recall a stored number/name.

3) DIRECT ENTRY OF A NUMBER:
If the user knows the number of the internal unit to be called, this can be entered directly via the keypad followed by the key to make the call. A call is then made to the entered number, and during this phase the display shows the called number indicating the call in progress:

```
00000123 CALLING
```

After the ring tone, the panel sets to standby for an answer (by the internal unit) displaying:

```
00000123 AWAITING ANSWER
```

When the internal unit answers the call, the first message is replaced on display by the notification of the start of conversation:

```
00000123 TALKING
```

When the internal user replaces the handset (indicated by the relative message) or after the key is pressed, the call can be interrupted. This operation returns the panel to the base status with relative message on display (see paragraph above).

4) USING THE NAME AGENDA:
To activate the “Agenda” function, from the base status, press the key . When the key is pressed, the display shows the stored user names for approx. ½ second and then the following 2 messages alternately every 3/4 second:

```
SCROLL LIST WITH KEYS and  
ENTER INITIAL OF REQUIRED NAME
```

At this point the caller can scroll through the stored names (in alphabetical order) by means of the keys and , or use the search function to find the required name or names “nearby”. In this search phase, the display shows the selected name with internal number:

```
MICHELI PAOLO  
Number=00000034
```

In this phase, as shown on display, for faster access to a name, press the key with the initial letter of the name to be searched (NB: the keypad has the alphanumeric characters described below). When the key is pressed, the display shows the first name with the initial entered or the letter after the one pressed.
5) When the required name (number) is displayed, press the key to delete. A request is then displayed to confirm deletion:

ROSSI MARIO
CANCEL???

PARAMETERS FOR PROGRAMMING

NB1: Given that each key has 3-4 letters, when pressed repeatedly the key enters the letters according to the number of times the key is pressed (for example, if the key (6MNO) is pressed once the display shows the first name with the letter M or next letters if pressed consecutively. Therefore it is not possible to move directly to the letter O or N as the display starts from M and then the user can scroll the list with the relative keys.

NB2: Note that the forward scroll (by means of key ) is normally faster than the back scroll (by means of key ). Therefore searches are recommended starting from the first letters on the key.

Once the name to be called is selected, press key and communication will proceed as per the number entry procedure (see previous paragraph).

5) ENTERING/DELETING/MODIFYING USERS VIA THE KEYPAD:
This stored user management mode should only be used occasionally (periodically on site). It should normally be avoided, given the time-consuming procedure, and also because it does not enable a trace to be maintained of stored data on file for restoring data when required.

ENTERING A NAME VIA THE KEYPAD:
1) Press and hold keys + . This displays the message "--------" to request the password of previously memorised users (default=222) after which press the key . The following data are then requested:

<table>
<thead>
<tr>
<th>New Number?</th>
</tr>
</thead>
</table>

A new internal number for entry is requested. Enter by means of the numerical keys and press to confirm.

<table>
<thead>
<tr>
<th>New Name? A</th>
</tr>
</thead>
</table>

Entry of a new name is requested, proposing the first letter "A". To select the first required letter, press keys and as required. When the required letter is displayed (such as M) press the key to confirm and move to the next letter. The first selected letter is shown on the display followed by A for the second letter.

<table>
<thead>
<tr>
<th>New Name? MA</th>
</tr>
</thead>
</table>

Proceed as above by means of the scroll keys and confirming all the remaining letters (max 16). (NB: To enter a space move back from the letter “A” to select the space (approx. 32 characters before).

When the name is complete, press to confirm and save. After a brief standby interval the panel returns to the base status. For subsequent entries, repeat the above operations as described.

To interrupt the procedure in any phase, press “R” (during letter entries, this returns to the previous letter).

DELETING A NAME VIA THE KEYPAD:
To delete a name, enter the user entry mode, scroll through to the required name and delete. Proceed as follows:

1) Enter user programming mode by pressing keys + simultaneously, to display the message "--------" requesting the user password previously memorised (default=222) and then press key .

2) At this point the message is displayed (as described above) requesting entry of the new number:

<table>
<thead>
<tr>
<th>New Number?</th>
</tr>
</thead>
</table>

3) Press the push-button to enter the name cancellation mode.

4) Use keys and to scroll through the list to the name to be deleted. To speed up the search, press on of the keys with an alphanumeric letter (ABC,DEF,GH..) to reach the required letter.

ROSSI MARIO
11223344

5) When the required name (number) is displayed, press the key to delete. A request is then displayed to confirm deletion:

ROSSI MARIO CANCEL???

6) Press to confirm deletion. After a brief interval, the deletion message is displayed and the panel returns to base status.

NB: After point 4 in the procedure, the deleted data cannot be retrieved. Re-enter if necessary.

NB2: Always pay attention to the deletion confirmation messages and verify correct deletion (scrolling through the list to check).

DELETING ALL NAMES VIA THE KEYPAD:
1) Enter user programming mode by pressing keys + simultaneously, to display the message "--------" requesting the user password previously memorised (default=222) and then press key .

2) At this point the message is displayed (as described above) requesting entry of the new number:

<table>
<thead>
<tr>
<th>New Number?</th>
</tr>
</thead>
</table>

3) Pressing the push-button, the message:

Canc. All. ???

appears.

5) Press to confirm deletion. After a brief interval, the deletion message is displayed and the panel returns to base status.

NOTE: Always pay special attention to pay attention to the messages for cancellation confirmation.
KEYS TO RELEASE THE DOOR LOCK FROM THE KEYPAD:
If the entrance panel is not engaged in a conversation or is not locked in the engaged state, indicated by the message "ENGAGED", it is possible to release the door covered by the entrance panel by means of the entrance panel keypad. On this version, the door lock can be opened (on terminal "S") by entering the codes directly from the keypad. The main characteristics related to the operation are the following:
- Possibility of storing up to 38 different keys (with maximum 8 coding digits). Possibility of canceling/entering a single key directly from the keypad.
- Possibility of managing/storing/re-establishing the key also by means of a PC and specific software enclosed.
- During use, possibility of displaying the message (of confirmation or refusal) on the alphanumeric display.
- If the code entered is not present in the storage list, the respective code can always be sent to the serial (different for each entrance panel), to enable activation as to allow the possible activation of "infinite" different devices (for example through relay 170F) also remote.

To release the door lock:
To access this function, refer to the value set in parameter 7 of the entrance panel; if the value is 0, press " "; if the value is 1, press " " and " " simultaneously; and if the value is 2, press " ". Before pressing the key for access to the function, it is advisable to cancel any operation in progress, by means of the " " key, and then use the keys indicated previously. After activating the function on the display, the following symbols will appear " - - - - - - - - ". To release the door, enter one of the codes recorded in parameters 31- to 68 and then press " ". Note that the code 0000 0000 cannot be used for door release.

To store the door lock codes in the memory, proceed as follows:
- Enter the technical programming mode ( + ) followed by the programming "password" (default value: 123)
- Scroll all parameters until you can enter the key zone (the following parameter is requested: "Chiave Ser.N 001"). Note: to by-pass the scrolling of all parameters press the "doppia freccia giù" (double arrow down) parameter so as to reach immediately the first key.
- Scroll through to the position of the key to enter/modify (for example "Chiave Ser.N 015" for the 15° key).
- Enter the code to store (without initial zeroes and with a maximum of 8 digits). Confirm with " " (bell).
- To exit programming mode press the " " push-button.

CODES FOR ACTIVATION OF FUNCTIONS F1 AND F2:
As well as the 38 codes mentioned above an additional 2 numerical codes can be entered in the memory (max. 8 digits) which can be used for activation of the control line for functions F1 and F2. This enables, in addition to activation of the lock release via the keypad, activation of any connected accessory functions (such as an external light and/or accessory gate). To memorise these codes, proceed as per the lock codes; scroll through the 38 items using key 
, after which the message "CODE F1" (or "CODE F2" is displayed when the key is pressed again). Then enter the required code and confirm by pressing .

DISPLAY LIGHTING:
While the keypad lighting is permanently activated (to enable identification of the keypad) the display brightness varies according to use of the panel:
- When the panel is not used, the display brightness is set to minimum (low profile display of initial message).
- When a key is pressed and during conversations the brightness is then set to maximum.

SPECIAL PARAMETERS TO BE PROGRAMMED:
- Error counter: parameter that counts the number of activations of the digital relay (due to short circuits on the digital line). No programming is required, but it may be reset as necessary.

CONNECTION OF PC FOR DATA DOWNLOAD/UPLOAD:
Connect the PC serial cable by means of type 6952 to terminals 4 and 1. The length of this cable should not normally exceed a few metres (given the transfer speed). If the PC does not have a serial connector, the relative USB port can be used, connected to a specific USB-RS232 adaptor. The connection between the PC and card can be made with the agenda correctly powered. If a connection is to be made to a separate module (not connected), a supply voltage of 12-16 Vdc is required between terminals 4 and 5 on the terminal board (possible from any power supply).

Wiring diagram
DISPLAY OF SOFTWARE VERSION:
With the panel in normal operating status, press and hold keys “1”+“2”+“3” simultaneously. This displays the date of the internal software version (firmware): for example PG160605 means 16 June 2005.

AUTOTEST FUNCTIONS:
This is a function (for technical use) that enables the direct display of the voltages on the 3 main lines of the bus (supply voltage, audio and digital). Press keys R+3 together on the panel to display the following message (or similar):

V5=13,4  V1=11,7  V3=11,9

V5 corresponds to the supply voltage (between terminals 5 and 4)
V1 corresponds to the voltage of the digital line “to the cable riser” (between terminals 1 and 4)
V3 corresponds to the voltage of the audio line “to the cable riser” (between terminals 3 and 4)

The message, useful for quick analysis, is cleared automatically after a few seconds.

During a call, if the voltage on the digital line (1) is too low (due to a short circuit or power failure of the relative generator) the function is activated automatically and the display shows the relative message (indicating low voltage on the serial line):

ERR. SER. 1 LOW
MINIMAL CONDUCTOR SECTION (mm²)

<table>
<thead>
<tr>
<th>Conductors</th>
<th>Ø up to 50 m.</th>
<th>Ø up to 100 m.</th>
<th>Ø up to 200 m.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-5</td>
<td>0,75 mm²</td>
<td>1 mm²</td>
<td>1,5 mm²</td>
</tr>
<tr>
<td>+ - and lock</td>
<td>1 mm²</td>
<td>1,5 mm²</td>
<td>2,5 mm²</td>
</tr>
<tr>
<td>Others</td>
<td>0,5 mm²</td>
<td>0,75 mm²</td>
<td>1 mm²</td>
</tr>
</tbody>
</table>

Video Coaxial cable 75 Ohm

Conversion table of sections-diameters and relative resistances for 100 m. standard conductors.

<table>
<thead>
<tr>
<th>Section mm²</th>
<th>0,12</th>
<th>0,25</th>
<th>0,35</th>
<th>0,50</th>
<th>0,75</th>
<th>1,00</th>
<th>1,50</th>
<th>2,50</th>
<th>4,00</th>
<th>6,00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter mm.</td>
<td>0,40</td>
<td>0,58</td>
<td>0,68</td>
<td>0,80</td>
<td>1,00</td>
<td>1,15</td>
<td>1,40</td>
<td>1,80</td>
<td>2,30</td>
<td>2,80</td>
</tr>
<tr>
<td>Decimal diameter</td>
<td>4/10</td>
<td>6/10</td>
<td>8/10</td>
<td>10/10</td>
<td>12/10</td>
<td>14/10</td>
<td>18/10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resistance Ω 100m.</td>
<td>14,00</td>
<td>6,60</td>
<td>4,80</td>
<td>3,50</td>
<td>2,20</td>
<td>1,70</td>
<td>1,14</td>
<td>0,69</td>
<td>0,39</td>
<td>0,28</td>
</tr>
</tbody>
</table>

DIAGRAM SYMBOLS

- A.C. buzzer
- A.C. bell
- Electric lock
- Lamp
- Push-button
- Switch
- Loudspeaker
- Amplified microphone
- Receiver
- Ground
- Coaxial cable grip

INTERPHONE RISER WITH FLOOR DISTRIBUTOR ART. 949B (A) AND WITHOUT DISTRIBUTOR (B). Ref. diagram si029, si028

The risers shown (Type A or B) must be included in all interphone diagrams given in this collection.

A

INTERPHONE CABLE RISER

Phone Art. 8877

D

Phone Art. 8877

Phone Art. 6201

TO POWER SUPPLY
ART. 6941

D - Distributor 949B

B

INTERPHONE CABLE RISER

Phone Art. 8877

Phone Art. 887B

Phone Art. 6201

Phone Art. 6204

Phone Art. 6604/AU

Phone Art. 6704/AU

TO POWER SUPPLY
ART. 6941
SIMPLE RESIDENTIAL INSTALLATION WITH INTERPHONES EQUIPPED WITH INTERNAL DECODING.
Ref diagram si074.00

INTERPHONE CABLE RISER

Phone
Art. 887B
Art. 887B/1

Phone
Art. 6204

Phone
Art. 6604/AU
Art. 6704/AU

Mains

Power supply
Art. 6941

C- Entrance panel Art. 1284
CX-Entrance panel series 1200
P- Additional push-button for lock
L- Electric lock 12V A.C.
SIMPLE RESIDENTIAL INSTALLATION WITH FLOOR DISTRIBUTORS EQUIPPED WITH INTERNAL DECODING. Ref. diagram s075.00

C- Entrance panel Art. 1284
CX-Entrance panel series 1200
P- Additional push-button for lock
L- Electric lock 12V A.C.
SIMPLE RESIDENTIAL INSTALLATION WITH TWO OR MORE PANELS IN PARALLEL.
Ref. diagram si076.00

WIRING DIAGRAM

Disconnect the metal jumper located on the side of the terminal block.

- Transformer Art. M832
- Relay Art. 170/001
- Power supply Art. 6941
- INTERPHONE CABLE RISER
- Mains Art. 170/001

CX- Entrance panel series 1200
P- Additional push-button for lock
L- Electric lock 12V A.C.
RESIDENTIAL INSTALLATION WITH ONE MAIN PANEL AND TWO OR MORE SECONDARY PANELS (BUILDING COMPLEX). Ref. diagram si077.00

Parameters to set:

Parameters to modify on the secondary entrance panels.
Initial user "INITI_US"
Final user "FINA_US"
The numbers between initial user and final user of each entrance panel must not be the same as those of another secondary entrance panel.

Parameters to modify on the main entrance panel.
Chime duration "SOUND_T" The call time of the main entrance panel must be greater than the call time of the secondary panels (by at least one second).

C- Entrance panel Art. 1284
CX-Entrance panel series 1200
P- Additional push-button for lock
L- Electric lock 12V A.C.
RESIDENTIAL INSTALLATION WITH TWO OR MORE MAIN PANELS AND TWO OR MORE SECONDARY PANELS (BUILDING COMPLEX). Ref. diagram si078.00

Parameters to set:

Parameters to modify on the secondary entrance panels.
- Initial user "INITI_US"
- Final user "FINA_US"

The numbers between initial user and final user of each entrance panel must not be the same as those of another secondary entrance panel. Parameters to modify on the main entrance panel.
- Chime duration "SOUND_T"
- The call time of the main entrance panel must be greater than the call time of the secondary panels (by at least one second).

C- Entrance panel Art. 1284
CX-Entrance panel series 1200
P- Additional push-button for lock
L- Electric lock 12V A.C.
MONITOR CABLE RISER WITH UNITS EQUIPPED WITH INTERNAL DIGITAL SIGNAL DECODING.  
Ref. diagram si356.00

The riser shown must be included in all the video monitor diagrams in this collection (this diagram is an alternative to diagram si036)  

NOTE: The last video distributor must be loaded with a 75 Ohm resistor connected to free terminal V.
The riser shown must be included in all the video monitor diagrams in this collection (this diagram is an alternative to diagram si035)

NOTE: The last video distributor must be loaded with a 75 Ohm resistor connected to free terminal V.
SIMPLE RESIDENTIAL INSTALLATION WITH MONITORS EQUIPPED WITH INTERNAL DECODING.
Ref. diagram si357_1

NOTE: The last video distributor must be loaded with a 75 Ohm resistor connected to free terminal V.

D- Entrance panel Art. 1287
DX- Entrance panel series 1200
P- Additional push-button for lock
L- Electric lock 12V A.C.
SIMPLE RESIDENTIAL INSTALLATION WITH DISTRIBUTORS EQUIPPED WITH INTERNAL DECODING. Ref. diagram si080.00

NOTE: The last video distributor must be loaded with a 75 Ohm resistor connected to free terminal V.

D- Entrance panel Art. 1287
DX- Entrance panel series 1200
P- Additional push-button for lock
L- Electric lock 12V A.C.
X- Distributor 949B
SIMPLE RESIDENTIAL INSTALLATION WITH TWO OR MORE PANELS IN PARALLEL
Ref. diagram si081.00

Refer to diagram si081.00 for detailed wiring instructions.

Disconnect the metal jumper located on the side of the terminal block.

D- Entrance panel
DX- Entrance panel series 1200
P- Additional push-button for lock
L- Electric lock 12V A.C.

MONITOR CABLE RISER

Relay Art. 170/001
Transformer Art. M832
Power supply Art. 6948

Mains

Relay Art. 170/051
Power supply Art. 6942

Relay Art. 170/051

Mains
RESIDENTIAL INSTALLATION WITH ONE MAIN PANEL AND TWO OR MORE STAIRWAY PANELS (BUILDING COMPLEX). Ref. diagram si083.00

Parameters to set:
Parameters to modify on the secondary entrance panels. Initial user "INITI_US" Final user "FINA_US".
The numbers between initial user and final user of each entrance panel must not be the same as those of another secondary entrance panel.
Parameters to modify on the main entrance panel.
Chime duration "SOUND_T". The call time of the main entrance panel must be greater than the call time of the secondary panels (by at least one second).
RESIDENTIAL INSTALLATION WITH ONE MAIN PANEL AND TWO OR MORE STAIRWAY PANELS (BUILDING COMPLEX). Ref. diagram si082.00

Parameters to set:
Parameters to modify on the secondary entrance panels. Initial user "INITI_US"
Final user "FINA_US" The numbers between initial user and final user of each entrance panel must not be the same as those of another secondary entrance panel.
Parameters to modify on the main entrance panel.
Chime duration "SOUND_T". The call time of the main entrance panel must be greater than the call time of the secondary panels (by at least one second).
RESIDENTIAL INSTALLATION WITH TWO OR MORE MAIN VIDEO PANELS AND TWO OR MORE VIDEO OR AUDIO STAIRWAY PANELS (BUILDING COMPLEX) REF. DIAGRAM SI084.00

Disconnect the metal jumper located on the side of the handset cable riser terminal board.

D- Entrance panel Art. 1287
DX- Entrance panel series 1200
P- Additional push-button for lock
L- Electric lock 12V A.C.

Parameters to modify on stairway panels
- Initial User UT INI, Final User UT FIN
- Numbers between the initial user and final user of each panel must not coincide with those of another stairway panel.
- Parameters to modify on the main entrance panel
  - Chime duration T suono
- The call time of the main panel must be greater than the call time of the stairway panels (by at least one second)
VARIANTS si085

During programming of the entrance panel it is possible to change the following two parameters:

<table>
<thead>
<tr>
<th></th>
<th>F1</th>
<th>Function time F1</th>
<th>Activation time of 1st auxiliary function F1</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>T_F1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>T_F2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F2</td>
<td>Function time F2</td>
<td>Activation time of 2nd auxiliary function F2</td>
</tr>
</tbody>
</table>

Connection of auxiliary functions F1 - F2 in systems equipped with internal decoding or without internal decoding.

In some cases, enabling the functions requires the use of supplementary buttons and connections to be made in addition to the basic connections. Interphones type 6204 and 6201 are fitted as standard with only the lock release button; for the use of a second auxiliary function, it is necessary to add button art. 6152 (pack containing 8 N.O. push-button in interphones type 6201 and type 6C59 (pair of N.O. push-buttons) in interphones type 6204. It is possible to activate an auxiliary function F1 controlled by the interphones or monitors by connecting a relay Art. 170/001 as shown in the diagram (terminals R1-4 of the power supply). It is possible to activate an auxiliary function F2 controlled by the interphones or monitors by connecting a relay Art. 170/001 as shown in the diagram (terminals R2-4 of the power supply unit).

The buttons "F1" and activate the function F1. The buttons "F2" and activate function F2.

Connection of relays for additional functions

**Interphones with internal coding**

- Phone Art. 8877
- Phone Art. 8877
- Phone Art. 6204
- Phone Art. 6604/AU Art. 6704/AU
- TO POWER SUPPLY ART. 6948

**Interphones without internal coding**

- Phone Art. 887B Art. 887B/1
- Phone Art. 6201
- Phone Art. 6201
- TO POWER SUPPLY ART. 6948

A- Distributor 949B

**Connection of auxiliary functions**

- Power supply Art. 6941
- Additional function F1
- Additional function F2
- C- Entrance panel Art. 1284
- CX- Entrance panel series 1200
VARIANTS si086

During programming of the entrance panel it is possible to change the following two parameters:

22  T_F1  Function time F1  Activation time of 1st auxiliary function F1
23  T_F2  Function time F2  Activation time of 2nd auxiliary function F2

Connection of auxiliary functions F1 - F2 in systems equipped with internal decoding or without internal decoding.

In some cases, enabling the functions requires the use of supplementary buttons and connections to be made in addition to the basic connections. Interphones type 6204 and 6201 are fitted as standard with only the lock release button; for the use of a second auxiliary function, it is necessary to add button art. 6152 (pack containing 8 N.O. push-button in interphones type 6201 and type 6C59 (pair of N.O. push-buttons) in interphones type 6204. It is possible to activate an auxiliary function F1 controlled by the interphones or monitors by connecting a relay Art. 170/001 as shown in the diagram (terminals R1-4 of the power supply). It is possible to activate an auxiliary function F2 controlled by the interphones or monitors by connecting a relay Art. 170/001 as shown in the diagram (terminals R2-4 of the power supply unit).

The buttons "F1" and  activate the function F1. The buttons "F2" and  activate function F2.

Monitors without internal coding

D- Entrance panel Art. 1287
DX- Entrance panel series 1200

A- Distributor 949B
Monitors with internal coding

D- Entrance panel Art. 1287
DX- Entrance panel series 1200
VARIANTS si087
During programming of the entrance panel it is possible to change the following two parameters:
22  T_F1  Function time F1  Activation time of 1st auxiliary function F1
23  T_F2  Function time F2  Activation time of 2nd auxiliary function F2

Variation for additional modules type 805N-80PN

Wiring diagram for connection of Digibus system electronic entrance panel with keypad and additional numerical display with luminous name-tag for 13 names type 805N or for street number type 80PN.

C- Entrance panel Art. 1284
CX- Entrance panel series 1200
D- Entrance panel Art. 1287
DX- Entrance panel series 1200

TO POWER SUPPLY
ART. 6941

TO POWER SUPPLY
ART. 6948
**VARIANTS A**
Variation for self-protection of the digital line with interruption of the riser only.
Ref.diagram si555

**VARIANTS B**
Variation for self-protection of the digital line with interruptions of the riser and the same entrance panel. Ref.diagram si555

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**INTERPHONE CABLE RISER**

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C- Entrance panel Art. 1284
CX- Entrance panel series 1200
P- Additional push-button for lock
L- Electric lock 12V A.C.

---

Standard connection
Connection for variations
VARIANTS C
Variation for self-protection of the digital line with interruption of the monitor cable riser only. Ref. diagram si556

VARIANTS D
Variation for self-protection of the digital line with interruptions of the monitor cable riser and the same entrance panel. Ref. diagram si556

---

D- Entrance panel Art. 1287
DX- Entrance panel series 1200
P- Additional push-button for lock
L- Electric lock 12V A.C.

---

Standard connection
Connection for variations
SAFETY INSTRUCTIONS FOR INSTALLERS

- Carefully read the instructions on this leaflet; they provide important information on the safety, use and maintenance of the installation.
- After removing the packing, check the integrity of the set. Packing components (plastic bags, expanded polystyrene etc.) are dangerous for children. Installation must be carried out according to national safety regulations.
- ATTENTION: to avoid physical injury, himself, this appliance must be fixed to the ground/wall according to the installation instructions.
- A bipolar switch with 3 mm gap (minimum) between contacts should be fitted in an accessible location near the power supply line.
- It is convenient to fit close to the supply voltage source a proper bipolar easy accessible type switch with 3 mm separation (minimum) between contacts.
- Before connecting the set, ensure that the data on the label correspond to those of the mains.
- Use this set only for the purposes designed, i.e., for electric door-opener systems. Any other use may be dangerous. The manufacturer is not responsible for damage caused by improper, erroneous or irrational use.
- Before cleaning or maintenance, disconnect the set.
- In case of failure or faulty operation, disconnect the set and do not open it.
- For repairs contact exclusively the technical assistance centre authorized by the manufacturer.
- Safety may be compromised if these instructions are disregarded.
- Do not obstruct opening of ventilation or heat exit slots and do not expose the set to dripping or water drops or sprays.
- Installers must ensure that manuals with the above instructions are left on connected units after installation, for users’ consultation.
- All items must only be used for the purposes specified.
- This leaflet must always be enclosed with the equipment.

Directive 2002/96/EC (WEEE)

The crossed-out wheele bin symbol marked on the product indicates that at the end of its useful life, the product must be handled separately from household refuse and must therefore be assigned to a differentiated collection centre for electrical and electronic equipment or returned to the dealer upon purchase of a new, equivalent item of equipment.

The user is responsible for assigning the equipment, at the end of its life, to the appropriate collection facilities. Suitable differentiated collection, for the purpose of subsequent recycling of decommissioned equipment and environmentally compatible treatment and disposal, helps prevent potential negative effects on health and the environment and promotes the recycling of the materials of which the product is made. For further details regarding the collection systems available, contact your local waste disposal service or the shop from which the equipment was purchased.

Risks connected to substances considered as dangerous (WEEE).

According to the WEEE Directive, substances since long usually used on electric and electronic appliances are considered dangerous for people and the environment. The adequate differentiated collection for the subsequent dispatch of the appliance for the recycling, treatment and dismantling (compatible with the environment) help to avoid possible negative effects on the environment and health and promote the recycling of material with which the product is compound.