O&M Instructions for use:

CLICK on your chosen part number from the index on page 2 to take you to the relevant Technical Data sheet

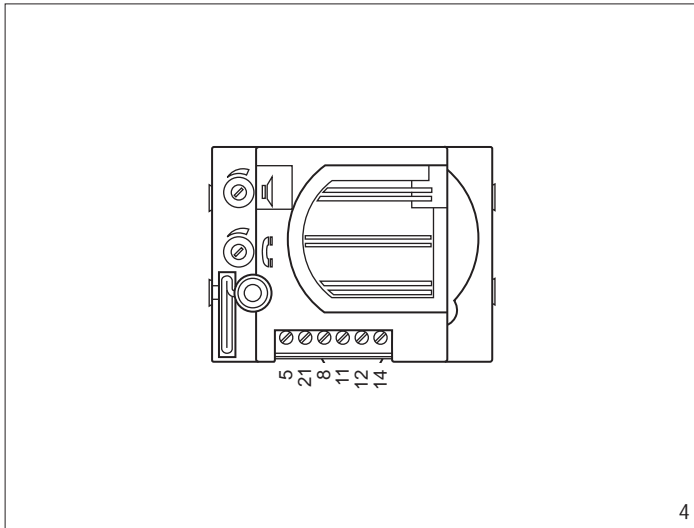On the right hand corner of each page you will find a red oval

click on this to take you to the Index page

System 200 Audio O&M

Contents

issue 1.

HA/200

AUDIO MODULE HA/200
The unit comes complete with
- loudspeaker;
- microphone which can be removed and fitted in a remote position where the installation features so require;
- two potentiometers for the following functions (fig. 4):

◁ entry panel volume control

📞 receiver volume control

Technical features
• Supply voltage: 12 VDC.
• Current demand: max. 50 mA (35 mA quiescent).
• Working temperature range: from -15 °C to +50 °C.

Function of each terminal (fig. 4)
5   − ⎤
21 + ⎦ 12 V DC supply voltage
8   common call (for witness note)
11   audio to receiver
12   audio from receiver
14   enabling

NOTE. In installations which do not cater for the enabling control, terminal 14 can be connected to the earth (module always on) or terminal 12 (module on only when receiver is lifted).

HAC/200

bpt

CODED-CALL ENTRY PANEL HAC/200

Entry panel with coded call and name directory for system 200 audio and video entry control installations and system 100 video entry control installations.

It features a back-lit display for viewing the names and numbers in the directory.

The back-lit keypad, made up of 18 pushbuttons, lets you send call codes, service codes and alphanumeric calls using the dedicated buttons.
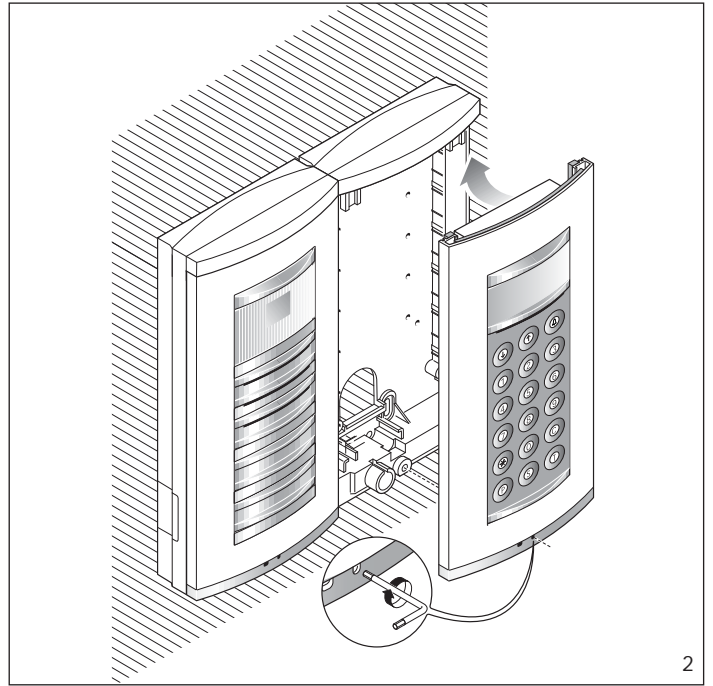
The unit also comes with an RS-485 port so that it can be connected to other similar units and/or PC for entering, transferring and saving names, messages and codes.

With a storage capacity of approx. 2,000 secret codes, the unit can be used for entrance control functions.
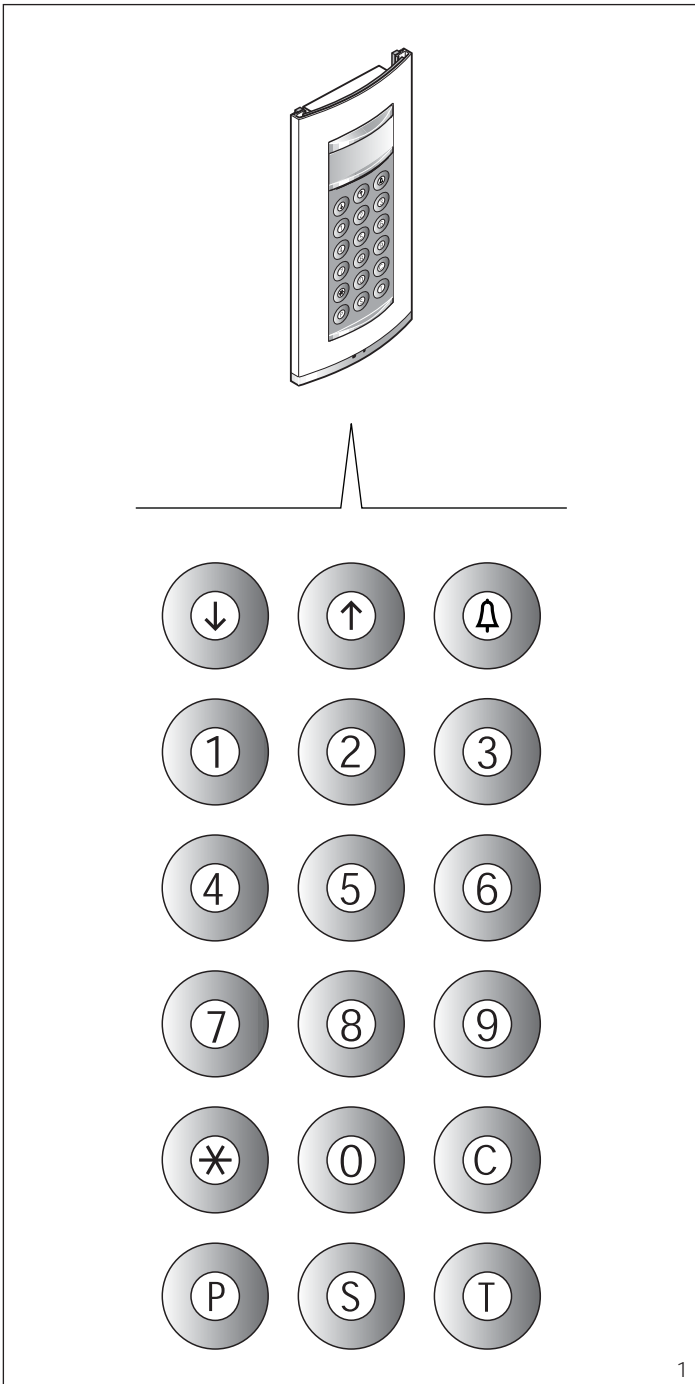
There is no definite number of user names, messages for the display and service codes, as this depends on the size of each field. For instance, with a name 12 letters long, a call code of 6 letters, and 6 numbers for the secret codes, over 2,400 user names can be entered.
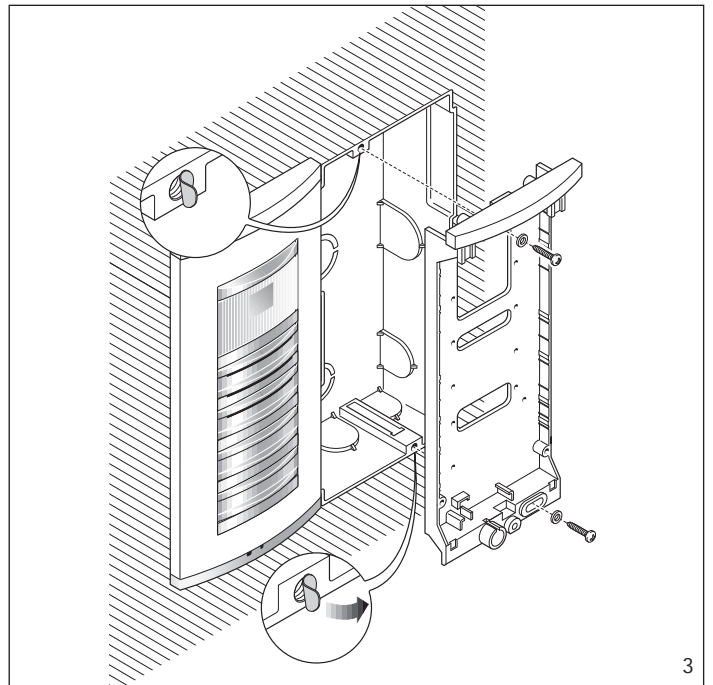
Features

- Option of selecting 3 sizes for the characters on the display for user names, informational messages, porter call messages, Tradesman command messages and system busy messages.

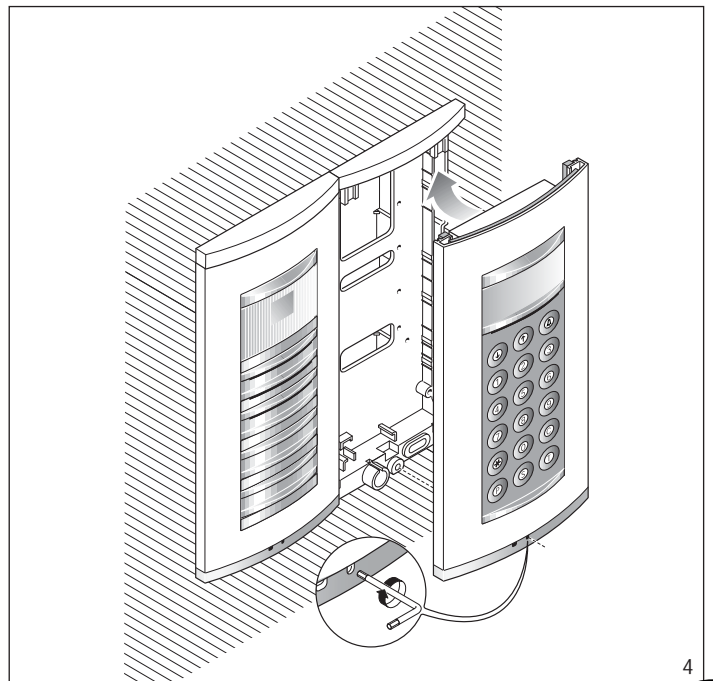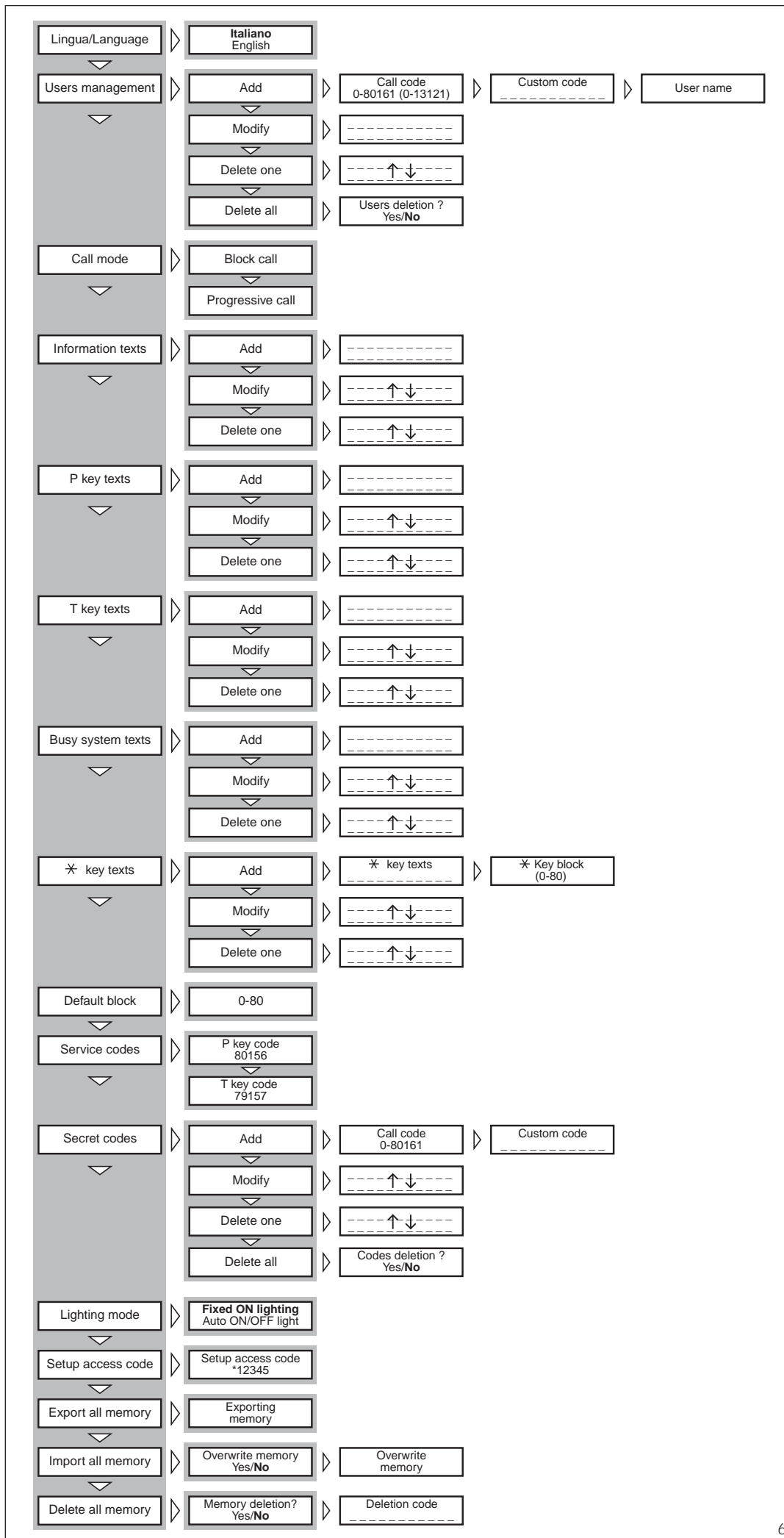- Programming menu which is enabled once the password is entered.

1

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3

4

Programming menu flowchart

Menu	Submenu	Detail	Detail	Detail
Lingua/Language	**Italiano** / English			
Users management	Add	Call code 0-80161 (0-13121)	Custom code ＿＿＿＿＿＿＿	User name
	Modify	＿＿＿＿＿＿＿		
	Delete one	＿＿＿ ↑↓ ＿＿＿		
	Delete all	Users deletion ? Yes/**No**		
Call mode	Block call			
	Progressive call			
Information texts	Add	＿＿＿＿＿＿＿		
	Modify	＿＿＿ ↑↓ ＿＿＿		
	Delete one	＿＿＿ ↑↓ ＿＿＿		
P key texts	Add	＿＿＿＿＿＿＿		
	Modify	＿＿＿ ↑↓ ＿＿＿		
	Delete one	＿＿＿ ↑↓ ＿＿＿		
T key texts	Add	＿＿＿＿＿＿＿		
	Modify	＿＿＿ ↑↓ ＿＿＿		
	Delete one	＿＿＿ ↑↓ ＿＿＿		
Busy system texts	Add	＿＿＿＿＿＿＿		
	Modify	＿＿＿ ↑↓ ＿＿＿		
	Delete one	＿＿＿ ↑↓ ＿＿＿		
✳ key texts	Add	✳ key texts ＿＿＿＿＿＿＿	✳ Key block (0-80)	
	Modify	＿＿＿ ↑↓ ＿＿＿		
	Delete one	＿＿＿ ↑↓ ＿＿＿		
Default block	0-80			
Service codes	P key code 80156			
	T key code 79157			
Secret codes	Add	Call code 0-80161	Custom code ＿＿＿＿＿＿＿	
	Modify	＿＿＿ ↑↓ ＿＿＿		
	Delete one	＿＿＿ ↑↓ ＿＿＿		
	Delete all	Codes deletion ? Yes/**No**		
Lighting mode	**Fixed ON lighting** / Auto ON/OFF light			
Setup access code	Setup access code *12345			
Export all memory	Exporting memory			
Import all memory	Overwrite memory Yes/**No**	Overwrite memory		
Delete all memory	Memory deletion? Yes/**No**	Deletion code ＿＿＿＿＿＿＿		

- Programming menu in Italian and English (select the desired option).
- Messages, names, codes and parameters entered via the entry panel's keypad.
- Option of copying and transferring the name directory.
- Call code generation in block, progressive or customized mode.

Function of each terminal

L LON data line

5 ⌐
6 ⌣ supply voltage 14 to 18V DC

7 call

8 call common

12 call confirmation note attenuation

14 entry panel enabling

I1 input not used

I2 input not used

Technical characteristics
- Display: graphical, back-lit display, pixel count 122x32
- Supply voltage: 14 to 18V DC
- Current demand: max. 350 mA
- Storage capacity: 1 Mb
- Working temperature range: -15 °C to + 50 °C.

Installation instructions
The front plate can be surface mounted or recessed using the relevant kits.
Remove the two plugs protecting the threaded holes in the embedding box and secure the chassis using the two screws supplied (fig. 3).
In order to install the front plate, first insert the upper part in the top of the housing (fig. 2) or chassis (fig. 4), and then tighten the fastening screws using the size 2.5 Allen key supplied.

Function of the buttons for calling users

↓ Directory search for names from A to Z.
Scanning performed in this order of priority: space, special characters, number and letters.

↑ Directory search for names from Z to A.
Scanning performed in this order of priority: space, special characters, number and letters.

♤ Call

0÷9 Buttons for entering numerical codes.

✳ Button for entering alphanumeric codes.

C Button for deleting the code or function on the display.

P Button for a service call (porter call etc.)

S Button to be pressed before keying in secret codes, password for accessing programming and for resetting default settings.

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T Button for a service call (tradesman stair light etc.).

ENTRY PANEL OPERATING INSTRUCTIONS

Information for visitors
The entry panel can be programmed so that, whilst the installation is in stand-by, information on how to use the keypad appears on the display in 4 languages.
These messages can be customized via programming.

Finding users stored in the directory and making the call
Pressing and releasing pushbutton ↓ or ↑ interrupts the informational messages so that you can search for the desired name (along with the name, the display features the customized code or, if there is none, the call code) in alphabetical order (scanning performed in this order of priority: space, special characters, numbers and letters).
Every time the button is pressed, the next name appears whilst, if the button is kept pressed, a fast search is performed, quickly scrolling through the initial letters in alphabetical order or reverse order depending on whether key ↓ or ↑ is used.
Select the initial letter desired, find the name using the key ↓ or ↑.
When the name desired comes up on the display, make the call by pressing the ⌂ key.
If you know the call code already, you can also key in the user's code directly via the keypad.

System busy warning
This status is indicated on the display with the previously programmed message.
Whilst in this condition, calls cannot be made from the entry panel.
Nonetheless, secret codes can be sent and the programming menu accessed.

Key P
A dedicated key for sending the call code to the porter.
Pressing this key calls up the message stored for this function (no default setting).
If the installation does not feature a porter switchboard, this code can be used for other purposes.

Key T
A dedicated key for making a service call (tradesman stair light etc.).
Pressing this key calls up the message stored for this function (no default setting).
Sending this code does not activate the installation.

Key S
This key must be pressed before entering secret codes.
In order to send a secret code, you must press the S key, enter the secret number (no more than 9 numbers) and press the ⌂ key.
The system features a device that

6

protects the secret codes from any attempts to discover them.
Once a code that does not match any of those stored has been entered 5 times, key P's service call code (usually corresponding to the porter call) is sent.

Key ✳
• Use key ✳ in residential installations to replace the block number with a letter or caption.
- Press key ✳ to select the caption to be associated with the block (e.g. A, B, Build. A etc.).
- Key in the user number and press the ⌂ key to make the call.
The block code associated with the caption must be programmed.
• Use key ✳ to make alphanumeric calls.
- Key ✳ can be used to select the letters. Once the necessary letters have been stored, simply key in the alphanumeric code (e.g. AZ, 1C, A3B etc.), than make the call by pressing ⌂.
Of course, the code entered must fit in the customized code field in the user menu.

Key C
Lets you delete the code keyed in.

Accessing the programming menu
In order to access programming, key in S✳12345 (default setting) and ⌂.

Default settings
The entry panel comes with the following settings:
1- Help messages for finding names in 4 languages (Italian, English, French, German).
2- Service messages (e.g. BUSY) in 4 languages (Italian, English, French, German).
3- Programming menu in Italian (with the option of selecting English).
4- CONSTANT LIGHTING mode for display and keypad.
5- Programming password and deleting memory S✳12345 (S✳ can be omitted from the memory deletion password)·
6- Block numerical call mode.
7- Block number: 00.
8- Code associated with key P: 80156.
9- Code associated with key T: 79157.

Resetting the default password
Should the customized password be misplaced, the default setting 12345 can be reset by entering an emergency code furnished by BPT. To receive this code, you must quote the ID code to be found on the back of the front plate.

Programming button functions

↓ Menu forward search function

↑ Menu reverse search function

⌂ Confirms function

0÷9 None

✳ None

C Exits programming and returns to the previous menu function

P None

S None

T None

Data entry button functions

↓ Decreases character size

↑ Increases character size

⌂ Confirms data entered

0 Enters number 0 and symbols + - / % £ $

1 Enters number 1 and symbols space , : @ ' " ;

2 Enters number 2 and letters A B C Å Ä Æ Ç

3 Enters number 3 and letters D E F É

4 Enters number 4 and letters G H I

5 Enters number 5 and letters J K L

6 Enters number 6 and letters M N O Ñ Ö Ø

7 Enters number 7 and letters P Q R S ß

8 Enters number 8 and letters T U V Ü

9 Enters number 9 and letters W X Y Z

✳ Enters symbols * . ? ¿ ! ¡ & §

C Deletion of the letter, number or symbol previously entered and exit from parameter data entry.

P Enters symbols # = ( ) < > _ ↓ ↑ ⌂

S Selects upper or lower case

T Advances the cursor across the display

Programming menu functions (fig. 6)

Lingua/Language
Italiano
English (select the desired language for the programming menu messages).
The language options are Italian and English.

Users management
Add (adds a new user).
The following parameters can be entered for each user:
• call code (0-80155)
• customized code (max. 9 numbers or letters)
• user name (max. 80 letters in small characters, max. 30 letters in medium characters, max. 9 letters in large characters).
WARNING. If you want to enter users in progressive call mode, you must first edit the settings in

the relevant section.
Modify (edits the stored user).
Delete one (deletes an individual stored user).
In the Modify and Delete one submenus, you can select the user to be edited or deleted using keys ↓ ↑ and ⌂.
You can scroll through quickly by keeping key ↓ or ↑ pressed.
Delete all (deletes all stored users).
In the Delete all submenu, you are asked to confirm before all stored items are deleted.

Call mode
Block call (call in block mode).
First two digits: 0 to 80;
Last three digits: 0 to 161.
Progressive call (call in progressive mode).
0 to 12635.

Information texts
Add (adds a new informational message).
Informational messages are entered using the alphanumeric keys and can contain up to 80 letters and numbers in small characters, 30 letters and numbers in medium characters and 9 letters and numbers for large characters.
Messages are displayed in sequence every 2 s.
Modify (edits the informational message).
Delete one (deletes an informational message).
In the Modify and Delete one submenus, you can select the message to be edited or deleted using keys ↓ ↑ and ⌂.

P key texts
Add (adds a new porter call message).
Porter call messages are entered using the alphanumeric keys and can contain up to 80 letters and numbers in small characters, 30 letters and numbers in medium characters and 9 letters and numbers for large characters.
Messages are displayed in sequence every 2 s.
Modify (edits the porter call message).
Delete one (deletes a porter call message).
In the Modify and Delete one submenus, you can select the message to be edited or deleted using keys ↓ ↑ and ⌂.

T key texts
Add (adds a new Tradesman command message).
Tradesman command messages are entered using the alphanumeric keys and can contain up to 80 letters and numbers in small characters, 30 letters and numbers in medium characters and 9 letters and numbers for large characters.
Messages are displayed in sequence every 2 s.
Modify (edits the Tradesman command message).
Delete one (deletes a Tradesman command message).
In the Modify and Delete one submenus, you can select the message to be edited or deleted using

keys ↓ ↑ and ⌂ .

Busy system texts

Add (adds a new system busy
  message).
*System busy messages are ente-
red using the alphanumeric keys
and can contain up to 80 letters
and numbers in small characters,
30 letters and numbers in medium
characters and 9 letters and num-
bers for large characters.*
*Messages are displayed in
sequence every 2 sec..*
Modify (edits the system busy mes-
  sage).
Delete one (deletes a system busy
  message).
*In the Modify and Delete one sub-
menus, you can select the messa-
ge to be edited or deleted using
keys ↓ ↑ and ⌂ .*

✳ key texts

Add (adds a new customized
  alphanumeric code).
*Customized alphanumeric codes
are entered using the alphanume-
ric keys and can contain up to 9
letters and numbers.*
*You will be asked to enter any
block code (0 to 80) associated
with the alphanumeric one.*
*Codes are always displayed with
large characters.*
Modify (edits the customized
  alphanumeric code).
Delete one (deletes a customized
  alphanumeric code).
*In the Modify and Delete one sub-
menus, you can select the code to
be edited or deleted using keys ↓
↑ and ⌂ .*

Default block

0-80 (block code)
  This code is transmitted when
  less than 4 digits are keyed in (in
  block call mode only).

Service codes

P key code (auxiliary call code sent
  to a remote actuator).
*If it is used to call the porter, the
user code (last three digits) must
be 156.*
*The block code (first two digits)
must be given a value in the range
0 to 80 except for the progressive
call mode, where numbers are limi-
ted to 78, 79, 80.*
T key code (porter call code sent to
  a remote actuator).
*You can use all block codes in the
range 0 to 80 (first two digits) and
user codes in the range 0 to 161
(last three digits).*
*If the progressive call mode has
been chosen, the range of usable
codes goes from 78000 to 78161,
79000 to 79161, 80000 to 80161.*
The codes stored for services are
kept divided into block number and
user number even where the pro-
gressive call mode has been cho-
sen.

Secret codes

Add (adds a new secret code).
*You will be asked to enter the call
code to be sent to the remote
actuator.*

*You can use all codes in the range
0 to 80 (for the block code) and in
the range 0 to 161 (for the user
code).*
*If the progressive call mode has
been chosen, the range of usable
codes goes from 78000 to 78161,
79000 to 79161, 80000 to 8016.*
You will also be asked to enter the
customized code (password up to 9
numbers long), which may be
given a different value for each
user.
Modify (edits the secret code).
Delete one (deletes a secret code).
*In the Modify and Delete one sub-
menus, you can select the code to
be edited or deleted using keys ↓
↑ and ⌂ .*
You can scroll through quickly by
keeping key ↓ or ↑ pressed.
Delete all (deletes all secret
  codes).
*In the Delete all submenu, you are
asked to confirm before all secret
codes are deleted.*
The codes stored for services are
kept divided into block number and
user number even where the pro-
gressive call mode has been cho-
sen.

Lighting mode

Fixed ON lighting (display and key-
  pad lighting always on).
Auto ON/OFF light (lighting swit-
  ched off automatically after 1
  minute).
The ⌂ key remains lit at all times.

Setup access code

12345 (default setting).
  Password for accessing pro-
  gramming menu.
*The password is entered using the
numerical keys and can be up to 8
numbers long.*
In order to access the programming
menu, the password must always
be preceded by the S key and ✳ .

Export all memory

Exporting memory?
  Once the export procedure has
  been started, it can be stopped
  using key C.
*WARNING. In order to use this
function, terminals L in the entry
panels must be connected with a
twisted pair (see relevant installa-
tion diagram).*

Import all memory

Overwrite memory. Yes/**No**
  You will be asked to confirm
  before the device's memory is
  overwritten.
*WARNING. In order to use this
function, terminals L in the entry
panels must be connected with a
twisted pair (see relevant installa-
tion diagram).*

Delete all memory

Memory deletion? Yes/**No**
  You will be asked to confirm
  before the device's memory is
  deleted.
Deletion code
  Enter the password for acces-
  sing the programming menu in
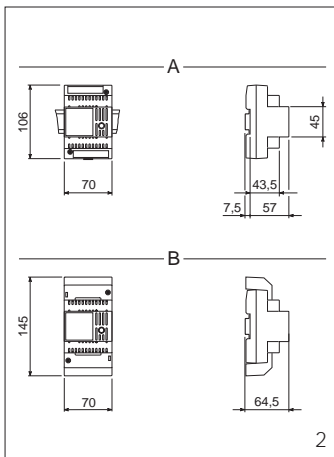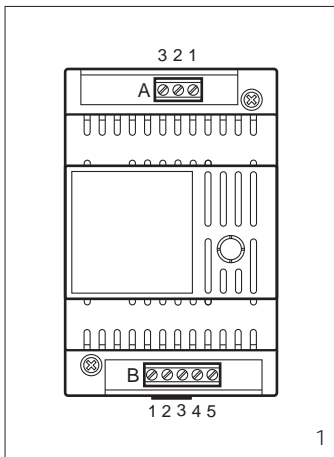 order to delete the memory.

**Copy memory between 2
HAC/200 units**

1) Set the entry panel HAC/200 to
copy in export mode, then set the
other HAC/200 entry panel to
import mode.
2) Confirm transfer and wait until it
is complete.
*The copy does not include the lan-
guage, call mode, block default
setting, service codes, lighting
mode and programming pas-
sword.*

VLS/101

1

2

RELAY MODULE VLS/101
The relay can be used to control auxiliary services such as: stairs light, additional bell, etc.
The relay coils can be energized with AC/DC voltage (10 ÷ 24 V) or through low level signals e.g. call signal.

Function of each terminal (fig. 1)
Terminal block A (relay's contacts)
1 normally open
2 common
3 normally close

Terminal block B
VLS/101 used as auxiliary relay:
1-2 voltage supply to relay's coil (10 ÷ 18 V DC/AC) or
1-3 voltage supply to relay's coil (18 ÷ 24 V DC/AC)

VLS/101 used as call adapter:
1 +10 ÷ 18 V DC
   or
3 +18 ÷ 24 V DC
4 call signal input
5 ground

Technical features
• Supply voltage: 10 ÷ 24 V DC/AC or low level signal (e.g. call signal).
• Current demand: 60 mA max.
• Max load to relay contact: 5 A at 250 V (2 A if load is inductive).
• Working temperature range: from 0 °C to + 35 °C.
• Dimensions: 4 DIN units module, low profile (fig. 2).
The unit can be installed without terminal covers into boxes provided with DIN rail (EN 50022).
Dimensions are shown in figure 2 A.
It can also be surface mounted, using the DIN rail supplied, but fitted with terminal covers.
Dimensions are shown in figure 2 B.

VLS/100C

1

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3
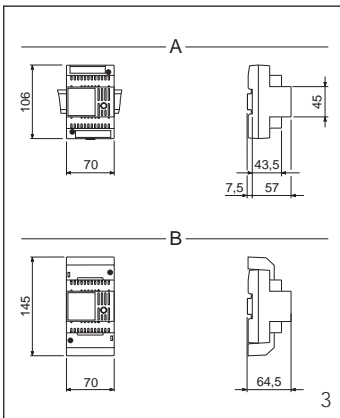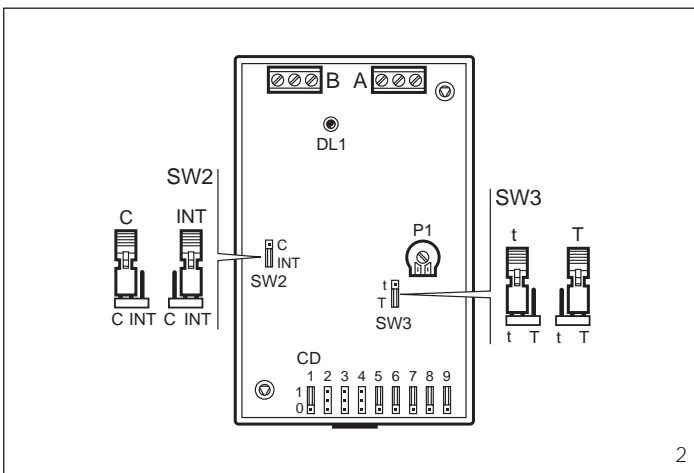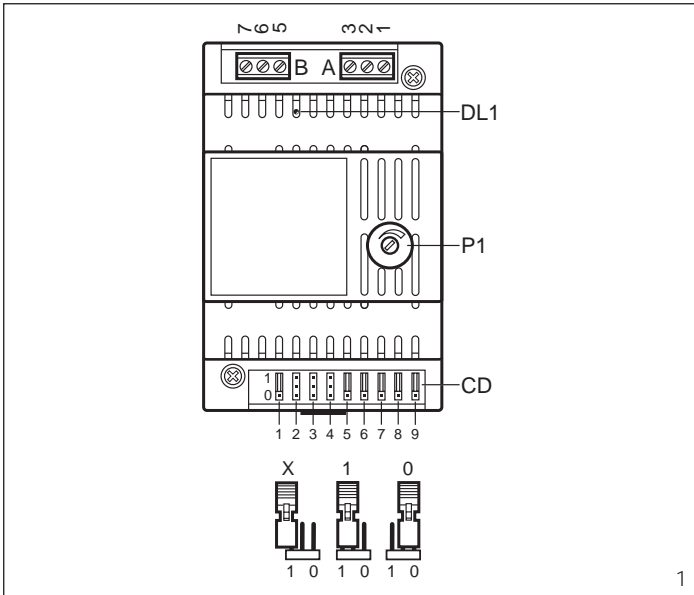
VLS/100C.01 RELAY UNIT

VLS/100C is a relay designed to control auxiliary services. When jumper SW2, figure 2, is placed to position C the relay is controlled by the coded signal sent either by the entry panel or porter swirchboard.

When jumper SW2 (fig. 2) is placed to position INT the relay is controlled by the coded signal sent by a intercom call button on intercom receivers series.

The duration the relay stays energized depends of jumper SW3, figure 2. When SW3 is placed to position t the time can be regulated by means of potentiometer P1, figure 1, from about 0.6 sec. to 10 sec., after which it de-energizes even if the code is still sent.

When SW3 is placed to position T the relay remains energized, after the time preset by P1 has elapsed, if the coded signal is still present.

NOTE. Take off top frame to reach *SW2* and *SW3* jumpers.

The acces key to VLS/100C is controlled by jumpers CD, figure 1.

The code to be set on VLS/100C must much that of controlling unit, i.e.:

- When VLS/100C is controlled by entry panel or porter switchboard refer to tables in relevant instructions sheet.
- When VLS/100C is controlled by intercom receivers refer to table in figure 4.

Functions to be set

P1 Potentiometer to preset the time VLS/100C stays energized.

CD Access key jumper.

SW2 Jumper to select VLS/100C driving source:
- When placed to position C the relay is controlled by entry panel or porter switchboard.
- When placed to position INT the relay is controlled by intercom receivers.

SW3 Duration relay stays energized:
- When placed to position t the relay stays energized for the time preset by P1.
- When placed to position T the relay remains energized, after the time preset by P1 has elapsed, if teh coded signal is still present.

DL1 Test LED.
The LED, figure 1, is lit for the duration the relay is energized.

Function of each terminal

Terminal block A
1 normally open contact
2 common
3 normally closed contact

Terminal block B
5 − supply voltage 14÷17,5VDC
6 +
7 input of coded signal

Technical features

- Supply voltage: 14÷17,5VDC.
- Current demand: 60mA.
- Max. load to relay contact 250V, 5A (2A if load is inductive).
- Working temperature range: from 0 °C to +35 °C.
- Dimensions: 4 DIN units module, low profile (fig. 3).
  The unit can be installed without terminal covers into boxes provided with DIN rail (EN 50022). Dimensions are shown in figure 3A.
  It can also be surface mounted, using the DIN rail supplied, but fitted with terminal covers. Dimensions are shown in figure 3B.

PULSANTE DI CHIAMATA *CALL BUTTON* RUFTASTE *BOUTON D'APPEL* PULSADOR DE LLAMADA *BOTÃO DE CHAMADA*	CD								
	1	2	3	4	5	6	7	8	9
1	X	X	X	X	X	0	X	X	X
2	X	X	X	X	0	X	X	X	X
3	X	X	X	0	X	X	X	X	X
4	X	X	0	X	X	X	X	X	X
5	X	0	X	X	X	X	X	X	X
6	0	X	X	X	X	X	X	X	X
7	X	X	X	X	X	0	0	X	X
8	X	X	X	X	0	X	0	X	X
9	X	X	X	0	X	X	0	X	X
10	X	X	0	X	X	X	0	X	X
11	X	0	X	X	X	X	0	X	X
12	0	X	X	X	X	X	0	X	X

Fig. 4

1

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SI/200

5
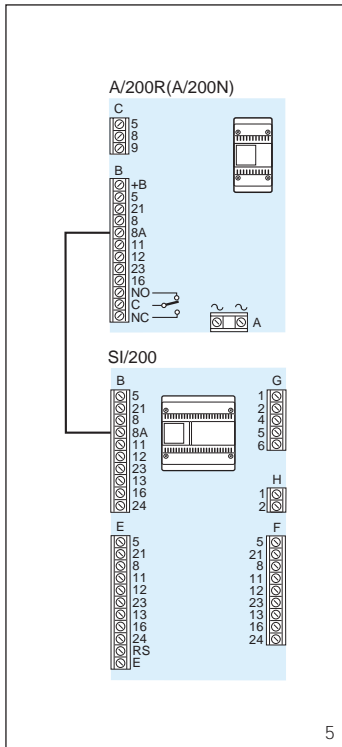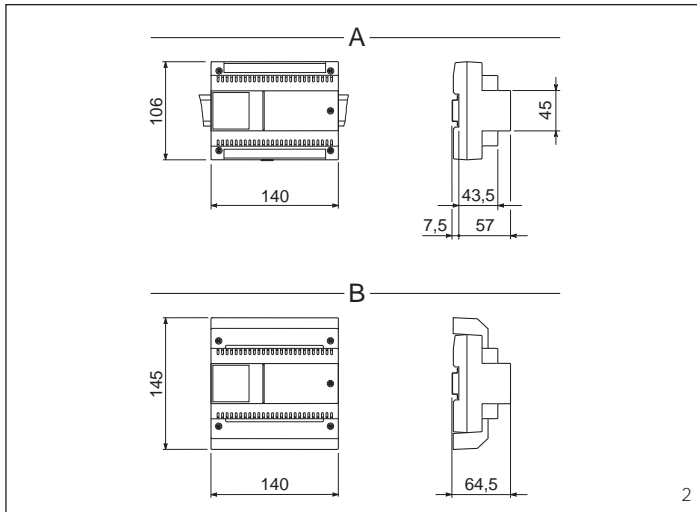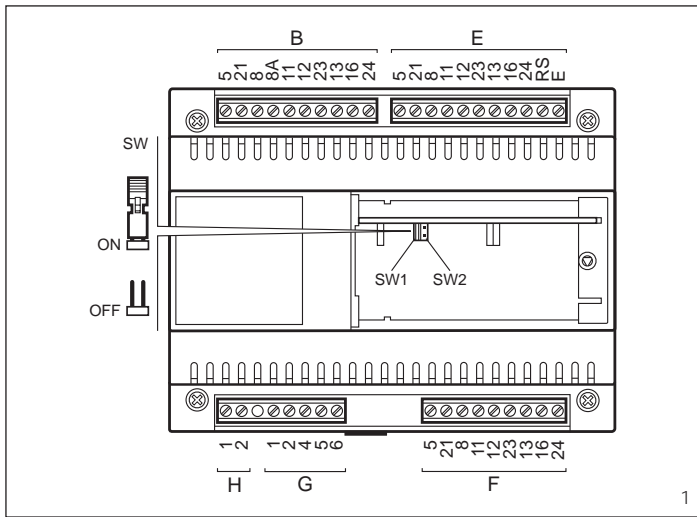
GB INSTALLATION INSTRUCTIONS

SI/200 ENTRANCE SELECTOR

This unit permits the selection of two entry panels and is configured to create the following systems:
• Single or multi-family systems with several entrances using the same number of selectors as there are entry panels minus one.
• Residential systems using the unit as a block selector.

Operating characteristics
• Protection of any connections installed and management of the engaged" signal, irrespective of whether the unit is used as a selector for several entry panels or as a block selector in residential systems.
The protection mechanism is disabled under the following conditions:
- approx. 2 minutes after the call;
- when the handset is replaced (SW1 jumper connected);
- permanently (SW2 jumper connected).
• The selector is equipped with an amplifier which regenerates the call signal.
• Possibility of connecting up to three internal units to the same call.
• Possibility of trading the origin of an external call by means of different tones which correspond to two different entry panels.
To enable this function, connect terminal 8A of SI/200 selector to terminal 8A on the power supplier installed (A/200, A/241, etc.), figure 3.
In this case, connections cannot be made for calls originating from internal floor landings.

Function of each terminal, figure 1
Terminal block B (to power supplier or preceding selector)
5 ⎤11V supply voltage
21 +⎦to entry panel
8 call 1 common
8A call 2 common
11 audio to receiver
12 audio to entry panel
23 input 14V AC
13 door release solenoid
16 0V AC
24 engaged signal input

Terminal block E (to entry panel no. 1)
5 ⎤11V supply voltage
21 +⎦to entry panel
8 call common
11 audio to receiver
12 audio to entry panel
23 output 14V AC
13 door release solenoid
16 0V AC
24 engaged signal output
RS reset ⎤(¹)
E audio enable ⎦

(¹) Functions for combined (audio and video entry systems) installations.

Terminal block F (to entry panel no. 2 or subsequent selector)
5 ⎤11V supply voltage
21 +⎦to entry panel
8 call common
11 audio to receiver
12 audio to entry panel
23 output 14V AC
13 door release solenoid
16 0V AC
24 engaged signal output

Terminal block G (services)
1 call 1 input
2 call 2 input
4 engaged signal output (for residential systems)
5 general reset
6 enable output

Terminal block H (services)
1 call 1 output
2 call 2 output

2

SW jumpers functions, figure 1
(in ON position)
SW1 resetting of engaged entry panels by replacing the handset.
SW2 deactivation of call protection and engaged signal.

NOTE. The selector is supplied with SW1 jumper wired in.

When A/241 power supplier are used (1+n installations), the SW1 jumper must be connected, figure 1.

Technical features
• Supply voltage: 11 V DC.
• Current demand: 45 mA max. (5 mA quiescent).
• Working temperature range: from 0 °C to +35 °C.
• Dimensions: 8 DIN units, low profile module, figure 2.
The unit can be installed without terminal covers into boxes provided with DIN rail (EN 50022).
Dimensions are shown in figure 2A.
It can also be surface mounted, using the DIN rail supplied, but fitted with terminal covers.
Dimensions are shown in figure 2B.

1

2
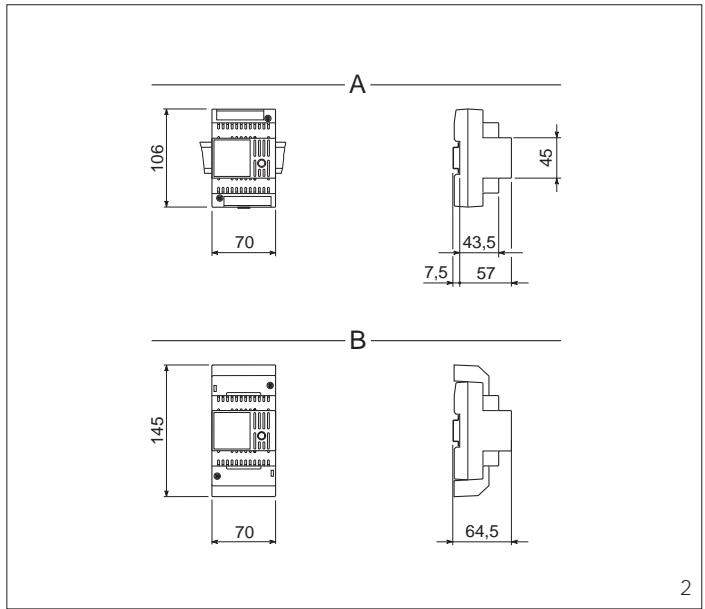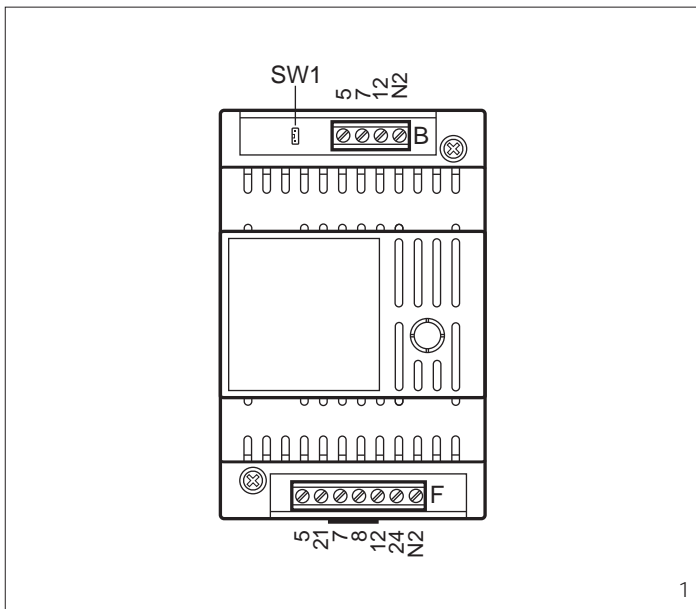
VSB/200C

VSB/200C
BLOCK SELECTOR

The VSB/200C block selector, combined with the SI/200 or VSI/200 entrance selectors, enables coded call audio and video residential multi-block installations to be created.

A residential installation is made up of one or more main entry panels from where the users of the various blocks can be called, each of which may have its own entry panel from where the users of the block can be called.

When idle, the VSB/200C plus SI/200 or VSB/200C plus VSI/200 selector unit connects the users of the block with their own entry panel.

The switching of the selector unit is controlled by coded call signals. In order to be able to recognize said signals, the unit must have been suitably programmed.

Programming is performed by sending two codes, which define the two limits of the call group which are recognized by the VSB/200C.

In the event of calls coming from the main entry panel, the selector unit establishes the communication between the receiver called and the main entry panel, cutting off the entry panel of the block in question, in which an engaged signal appears.

When a block installation is activated, the call from the main entry panel to a user in that block is unsuccessful and the engaged indicator on the main entry panel will be activated for as long as the call button is kept pressed down, plus an additional two seconds approx.

Programming one block only

1 - Power up the unit and remove the SW1 programming jumper, figure 1.
2 - Send the five-digit code, where the first two digits identify the block to be programmed, and the other three the first user.

3 - Wait for the programming to be acknowledged (only if the VPD/100 or VPDM/100 switchboard is being used).
4 - Insert the SW1 programming jumper.

Programming a range of progressive codes

1 - Power up the unit and remove the SW1 programming jumper, figure 1.
2 - Send the code relating to the first receiver (code with the lowest value).
3 - Wait for the programming to be acknowledged (only if the VPD/100 or VPDM/100 switchboard is being used).
4 - Send the code relating to the last receiver (code with the highest value).
5 - Wait for the programming to be acknowledged (only if the VPD/100 or VPDM/100 switchboard is being used).
6 - Insert the SW1 programming jumper.

Programming one call only

1 - Power up the unit and remove the SW1 programming jumper, figure 1.
2 - Send the code to be recorded.
3 - Wait for the programming to be acknowledged (only if the VPD/100 or VPDM/100 switchboard is being used).
4 - Send the same code again.
5 - Wait for the programming to be acknowledged (only if the VPD/100 or VPDM/100 switchboard is being used).
6 - Insert the SW1 programming jumper.

NOTE. If the programming is carried out via the VPD/100 or VPDM/100 porter switchboard, the acknowledgement of the completed programming is given by the codes sent appearing on the display PORTER CALL.

Function of each terminal, figure 1
Terminal block B
5   ground
7   coded call from main entry panel
12 coded call to porter switchboard
N2 enabling of second call note

Terminal block F
5   ground
7   coded call from block's entry panel
8   call common
12 call to porter switchboard
21 +12 VDC
24 block engaged
N2 enabling of second call note

Technical features
- Supply voltage: 11÷13 VDC.
- Current demand: 8 mA
- Maximum number of blocks which can be connected in a single installation: 100
- Working temperature range: from 0 °C to 35 °C.
- Dimensions: 4 DIN units, low-profile module, figure 2.

The unit can be installed without terminal covers, in boxes fitted with DIN rail (EN 50022).
See figure 2A for overall dimensions.
Alternatively, it can be wall-mounted using the DIN rail provided, and applying the terminal cover.
See figure 2B for overall dimensions.

DISPOSAL

Do not litter the environment with packing material: make sure it is disposed of according to the regulations in force in the country where the product is used.

When the equipment reaches the end of its life cycle, take measures to ensure it is not discarded in the environment.

The equipment must be disposed of in compliance with the regulations in force, recycling its component parts wherever possible.

Components that qualify as recyclable waste feature the relevant symbol and the material's abbreviation.
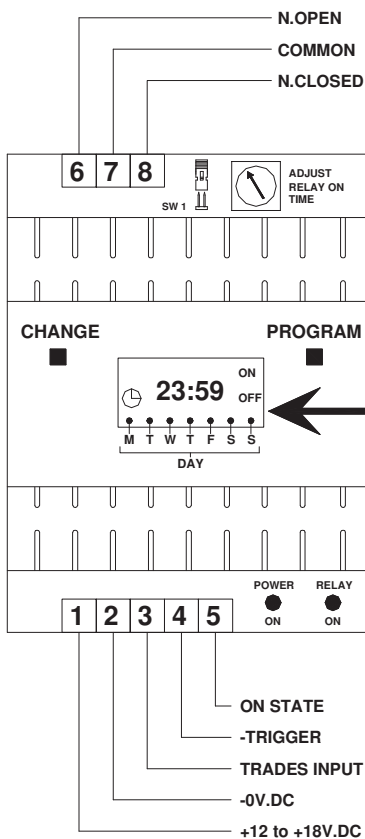
BPT UK TRADESMAN TIMER – TT/2

The timer is a fully programmable 7 day time clock and is primarily intended to provide inhibit and enable periods for Tradesman push button on all BPT Video and Audio Entry Systems.

The delay 'on' to lock release, provided by clean changeover contact from the TT/2, can be varied from 2 to 5 seconds. The provision of N/O or N/C contacts allows connection of virtually any configuration of lock release.

Facilities

- 6 ON – 6 OFF Weekdays and for both Saturday and Sunday.
- Adjustable delay 'On Time' to door release 2 to 15 seconds.
- 2 override inputs allowing operation even if time clock is in OFF state.
- 1000 hour reserve in the event of mains failure.
- Clean C/O output – rated 5 amp @ 240vAC (2A if load is inductive).

N.OPEN
COMMON
N.CLOSED

NOTE:
THE RELAY CONTACTS OF THE TT/2
DIFFER FROM THE TT/1

6 7 8

SW 1

ADJUST RELAY ON TIME

CHANGE   PROGRAM

23:59   ON
         OFF
M T W T F S S
DAY

SHOWING FULL
DISPLAY DETAIL

POWER   RELAY
ON   ON

1 2 3 4 5

ON STATE
-TRIGGER
TRADES INPUT
-0V.DC
+12 to +18V.DC

TIME OF DAY STATE

Set for example at 13:30pm
Wednesday and program time is **OFF**

13:30 OFF
W

Ensure the timer is at this state
after programming, with only the
2 dots between hour & minutes
flashing.

Important notes:

• For systems with 2 or more entry panels, ensure SW1 is 'ON'.
• For straight time clock operation link pins 4 & 5.
• To preserve battery life it is not recommended that this unit remain
disconnected for a charging source for a period of more than six months.

TESTS

ENSURE THE DISPLAY IS AT THE 'TIME OF DAY' STATE AS SHOWN ABOVE WITH RED LED ON, TIME
CLOCK PROGRAMMED AND NOW 'ON' IN THE DISPLAY.
(Press CHANGE to alter state from OFF to ON if necessary).

1. Momentarily short out terminals 1 to 3 **OR** call from entry panel if connected as diagrams. Green
   LED should come on for set duration. Adjust potentiometer for delay required.
2. Press change button and put time clock to 'OFF' state. Carry out item 1 above again. Green LED
   should not come on. Momentarily short out 2 to 4. Green LED should come on for set duration.
3. Put time clock to 'ON' state.
4. Short out 4 to 5. Green LED should stay on for as long as the short remains.

PROGRAMMING THE TIME CLOCK

- Only program the ON/OFF time slots you require. DO NOT program 0's or any other digits into ON/OFF positions unused.
  e.g. if you require 06:30 ON - 08:30 OFF MON to SUN, use only the first ON/OFF time slot.

- Carry out a full Reset to start programming. This will delete all previously programmed times and set the 'time of day' to 0: 00.

RESET PROCEDURE

PRESS & HOLD BOTH BUTTONS

WHEN DISPLAY BLANKS
RELEASE BOTH BUTTONS

AFTER A TEST DISPLAY,
DISPLAY SHOULD SHOW

0:00

FLASHING

YOU ARE NOW IN THE PROGRAM MODE
CARRY OUT PROGRAMMING WITHIN 1 MINUTE
OR THE DISPLAY WILL REVERT TO:

0:00 OFF

SET DAY & REAL TIME (e.g. Wednesday 11:30 am)

PRESS CHANGE TO
SET THE DAY

0:00
W

& DOT FLASHING
START PROGRAMMING THE ON / OFF TIMES WITHIN 1 MINUTE.

PRESS PROGRAM TO SELECT
THE HOUR, PRESS CHANGE
TO SET THE HOUR.

0:00

& HOUR FLASHING

PRESS PROGRAM TO SELECT
THE MINUTES, PRESS CHANGE
TO SET THE MINUTES.

11:00
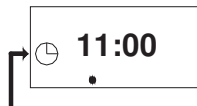
& MINUTES FLASHING

DISPLAY SHOULD NOW
SHOW AS UNDER:

11:30

MINS STILL FLASHING

SET 1ST ON TIME FOR ALL 7 DAYS (e.g. 6:30 am Mon - Sun)

PRESS PROGRAM TO
SELECT THE 1st ON TIME

-- : -- ON

ON & DOTS FLASHING
PRESS PROGRAM TO PROCEED TO 'SET OFF TIME' NOTE THAT THE ALL DAYS WILL NOT FLASH.

PRESS CHANGE TO SELECT
ALL DAYS.

-- : -- ON

ALL 7 DOTS & ON FLASHING

PRESS PROGRAM TO SELECT
HOUR, PRESS CHANGE TO
SET THE HOUR.

6:00 ON

6 FLASHING

PRESS PROGRAM TO SELECT
MINUTES, PRESS CHANGE TO
SET THE MINUTES.

6:30 ON

30 FLASHING

SET 1ST OFF TIME (e.g. 9:00am Mon - Sun)

WHEN PRESSING PROGRAM -
ON WILL CHANGE TO OFF,
BUT NOTE THAT THE DOTS
MON - SUN DO NOT FLASH.

THE DAYS FOR THE OFF STATE
WILL REMAIN AS SET FOR THE
ON STATE ABOVE.

PRESS PROGRAM TO SELECT
HOUR, PRESS CHANGE TO
SET THE HOUR.

9:00 ON
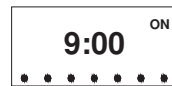
9 FLASHING

PRESS PROGRAM TO SELECT
MINUTES. CHANGE OR LEAVE
THE MINUTES IF REQUIRED.

9:30 ON
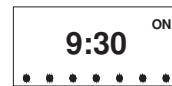
00 FLASHING

CONTINUE PRESSING PROGRAM & CHANGE TO SET ANY OTHER ON/OFF PROGRAMS.

- **TO REVIEW THE SET PROGRAMS, OR TO RETURN SPEEDILY TO THE REAL TIME STATE, HOLD PROGRAM BUTTON DOWN UNTIL THE PREVIOUSLY PROGRAMMED REAL TIME APPEARS & STOPS, THEN RELEASE PROGRAM BUTTON.**
- **AT THE REAL TIME & DAY DISPLAY, THE CHANGE BUTTON WILL OVERRIDE THE OFF TO ON & VICE VERSA.**
- **ENSURE THE TIMER IS LEFT AT THE REAL TIME DISPLAY, BUT IN ANY EVENT IT WILL REVERT TO THIS AFTER 1 MINUTE OF INACTIVITY ON THE 2 PUSH BUTTONS.**

BPT UK TRADESMAN TIMER – TT/2
PROGRAMMING

POSSIBLE 6 ON – 6 OFF TIMES OVER 7 DAYS

Hold down both the **PROGRAM** and **CHANGE** buttons until the display blanks, then release.
Display will eventually show as indicated on drawing.

```
CHANGE                          PROGRAM
   ■                               ■

        ⌚  0:00

          · · · · · · ·
        Mon           Sun
```
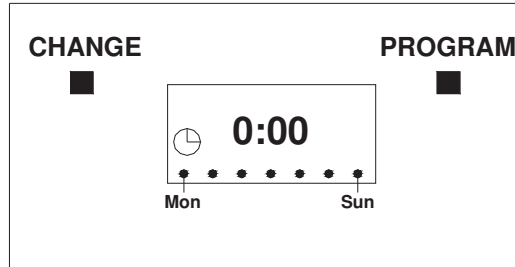
SETTING THE CORRECT DAY & TIME

Press **CHANGE** button to set day of week MON – SUN
(Indicated by dots left to right as MON – SUN)
Press **PROGRAM**
Press **CHANGE** button to set the current hour
Press **PROGRAM**
Press **CHANGE** button to set the current minutes
Press **PROGRAM**

SETTING 1st ON TIME

Press **CHANGE** until 7 dots appear
(This will enable on time for all 7 days of week, continue pressing **CHANGE** if you only require MON-FRI)
Press **PROGRAM**
Press **CHANGE** to set the on time e.g. 6:00
If minutes are not required – press **PROGRAM** again, otherwise press **CHANGE** to alter the minutes
Then press **PROGRAM**

SETTING 1st OFF TIME

Press **CHANGE** to set the off time e.g. 9:00
If minutes are not required – press **PROGRAM** again, otherwise press **CHANGE** to alter the minutes
Then press **PROGRAM**

Set any further ON / OFF times as required.
Note – the day dots can only be set at the on time setting – not the off

After all ON / OFF times are programmed, press **PROGRAM** until the correct day / time is reached as previously set.
The display will in any event reset itself to this state after 60 seconds of non-use of push buttons.

1

2

3

4

5

6A

6B

6C

7

8

9

10

11
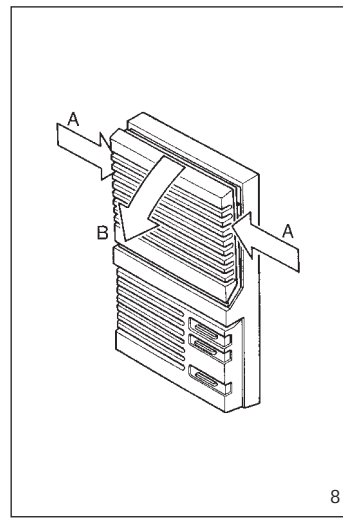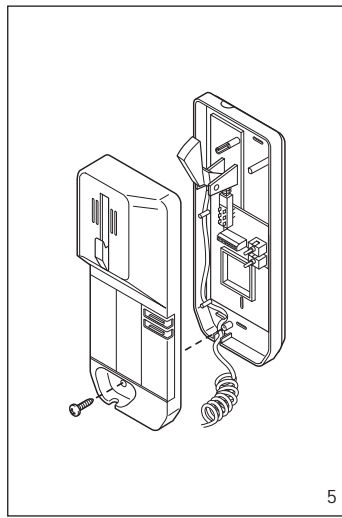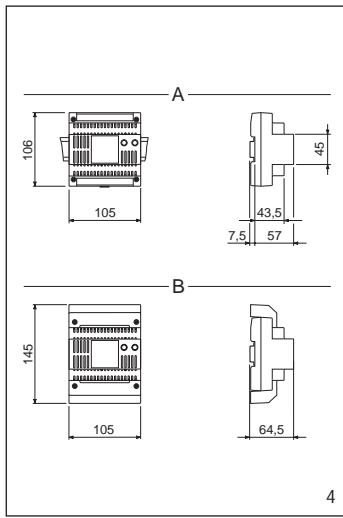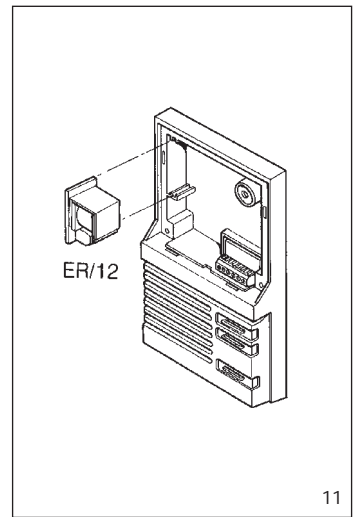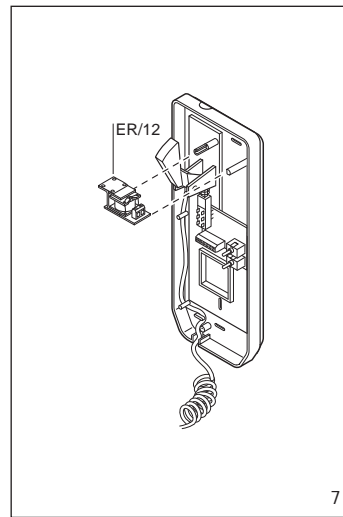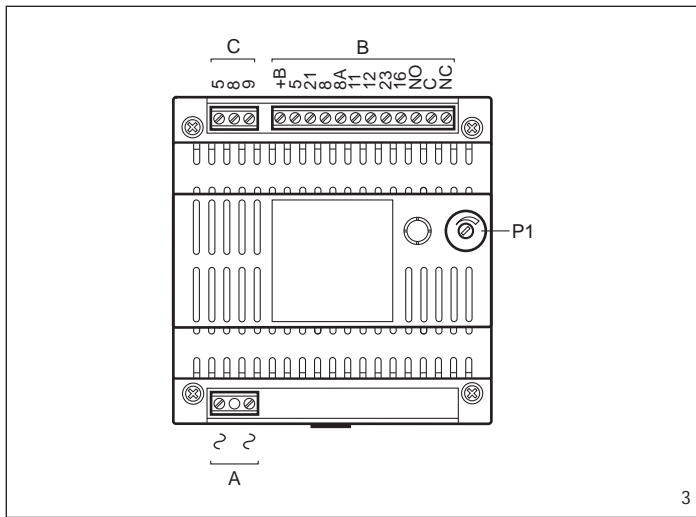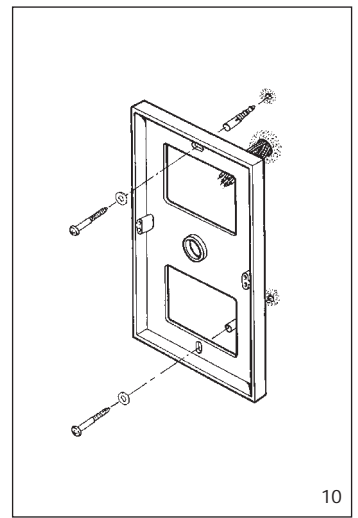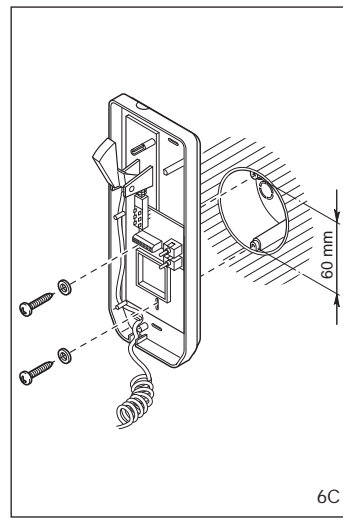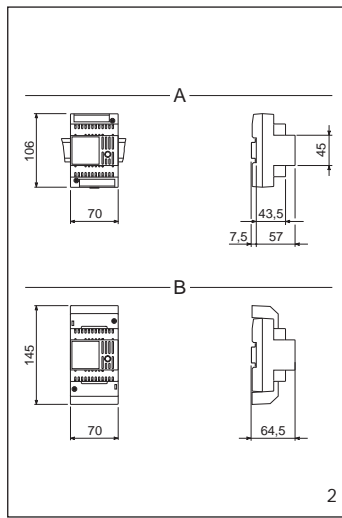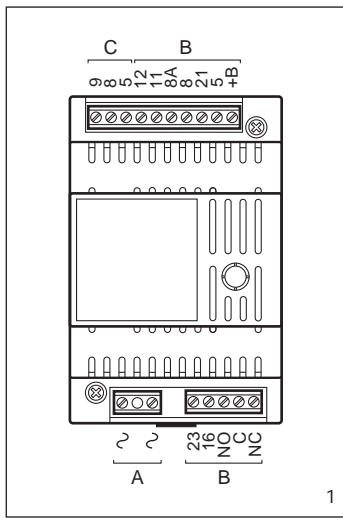
# A/200N

A/200R POWER SUPPLIER
The unit is equipped with a transformer capable of powering the HPC/1 entry panel and max. 20 HPP/6 panels (or MVA/100.01 audio module and max. 20 MC call button modules or 10 push-buttons lights, equal to 20 call push-buttons, on AZ entry panels).

The unit features the following functions:
- 2 two-tone call notes for entry panels (or for supplementary calls, e. g. landing calls).
- Power supply and control of electric door lock (12V AC, 1A) by means of relay (inside the unit).

Function of each terminal, figure 1
Terminal block A

~ ⌉
~ ⌋ mains

Terminal block B
+B   12 V DC input
5   ground
21   11 V DC output
8   call common 1 output
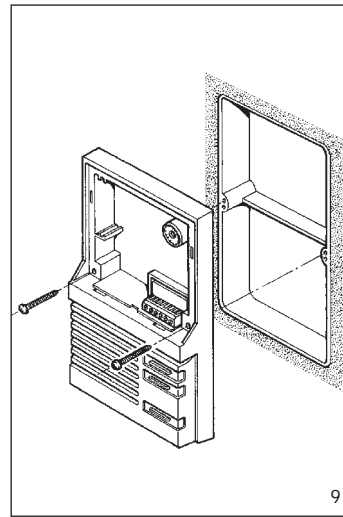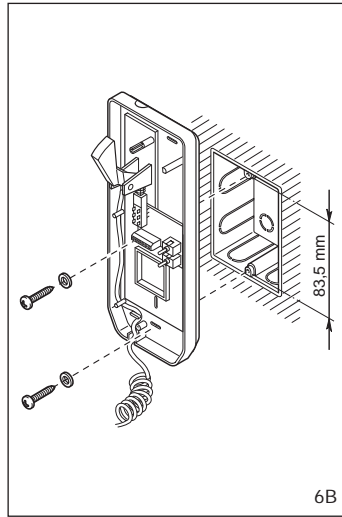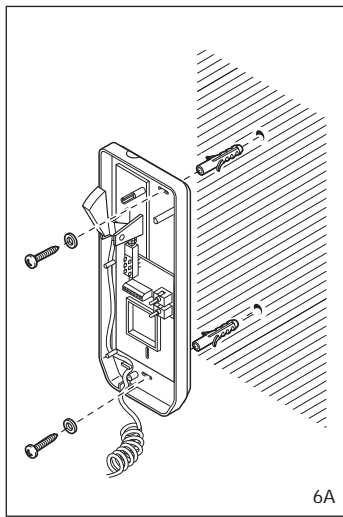
8A   call common 2 output
11   audio from entry panel
12   audio to entry panel
23 ⎤
16 ⎦ output 14 V AC
NO   normally open ⎤
C   common   ⎥ relay
NC   normally closed ⎦ contacts

Terminal block C
5   ground
8   audio to receiver
9   audio from receiver

Technical features
- Supply voltage: 230 V, 50/60 Hz.
  The transformer is electronically protected against overloading and short circuiting i. e. no fuses are used.
  The unit can be powered from a 12 V DC power supply, e. g. battery or uninterruptable power supply (terminals +B and 5).
  NOTE. The unit has no battery protection.
- Rated power: 15 VA.
- Output voltages:
  11 VDC 150 mA (300 mA peak)
  14 VAC, 650 mA (1 A in intermittent current).
- Call generator: 2 types of two-tone call (up to 3 internal units can be connected in parallel to the same call).
- Working temperature range: from 0 °C to +35 °C.
- Dimensions: 4 DIN units module, low profile, figure 2.

The power supplier can be installed without terminal covers into boxes provided with DIN rail (EN 50022).
Dimensions are shown in figure 2A.
It can also be surface mounted, using the DIN rail supplied, but fitted with terminal covers.
Dimensions are shown in figure 2B.

NOTE. The transformer primary is electronically protected against overloading and short circuiting i. e. no fuses are used.
Procedure to reset a triggered circuit:
- Disconnect the mains from the unit.
- Remove the cause of malfunction.
- Let the equipment to cool for at least 1 minute.
- Reconnect the mains to the unit.

A/200N POWER SUPPLIER
With the same features of A/200R, has also the following function:
- Power supply and control of electric lock (12 V AC, 1 A) by means of relay (inside the unit) with timer-controlled interval adjustable from 2 to 15 seconds by means of potentiometer P1, figure 3.
- Dimensions: 6 DIN units module, low profile, figure 4.

C/200 HANDSET
It is equipped with the following controls:
- ⌐ Door lock release button
- Auxiliary services

The C/200 call tone is electronic, in addition ER/12 buzzer, figure 7, can be fitted into the handset.

Function of each terminal
Terminal block C
5   ground
7   call
8   audio from entry panel
9   audio to entry panel
•   ⎤ button for
•   ⎦ auxiliary services

Technical features
- Current demand: 7 mA max. (0 mA quiescent).
- Max. switching capacity of auxiliary services button contact: max. 24V, 1 A.
- Dimensions: 88x220x70 mm.

Installation instructions
Untighten the fixing screw and remove the front cover from the back housing, figure 5. Fix the back housing to the wall, figure 6A, or to an embedding box, figure 6B, 6C.
Avoid excessive tightening of the screws especially when walls are not perfectly flat.
Make the relative connections and re-fit the cover.

XC/200 HANDSET
With the same features of C/200.
- Dimensions: 110x224x65 mm.

E/220 TWIN CHANNEL RECEIVER
E/220 can be either surface mounted or partially recessed in conjunction with ESP/220, figure 10, or ESI/220, figure 9, respectively.
It is equipped with the following controls:

- ⌐ Door lock release button

- ⚟ Button to operate stairs light timer or for any other services as required

- ⫶ Audio button. To be kept depressed to converse

The E/220 call tone is electronic, in addition ER/12 buzzer, figure 11, can be fitted into the handset.

Function of each terminal
Terminal block C
1   ground
2   audio to entry panel
3   audio from entry panel
4   call

Terminal block D
1   ⎤ button for
2   ⎦ auxiliary services

Technical features
- Current demand: 7 mA max. (0 mA quiescent).
- ⚠ Max. switching capacity of stairs light button contact: max. 24 V, 1 A.
- Dimensions: 100x172x27 mm.
- Dimensions with ESP/220: 100x172xx42 mm.
- ESI/220 embedding box dimensions: 90x162x24 mm.

Installation instructions
Remove the front grid, figure 8, and fix the housing to the wall using the provided screws, figure 9. Connect the wires and replace the front grid.

CAUTION. For acoustic reasons, the TM series entry panels must be fitted with MR/100 remote microphones.
Also, the unit cannot be installed with panel models Z/1÷3 or E/1÷3 which must be replaced with the corresponding models ZC/1÷3.
E/220 should never be used together with C/200-XC/200 series handsets.
*E/220 should never be used together with XC/220 twin channel receivers series.*

DISPOSAL
Do not litter the environment with packing material: make sure it is disposed of according to the regulations in force in the country where the product is used.
When the equipment reaches the end of its life cycle, take measures to ensure it is not discarded in the environment.
The equipment must be disposed of in compliance with the regulations in force, recycling its component parts wherever possible.
Components that qualify as recyclable waste feature the relevant symbol and the material's abbreviation.

VAS/100.30

1

2

bpt

CE
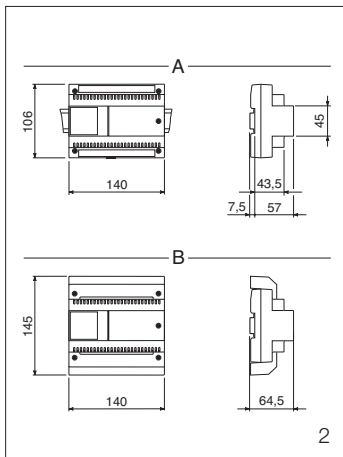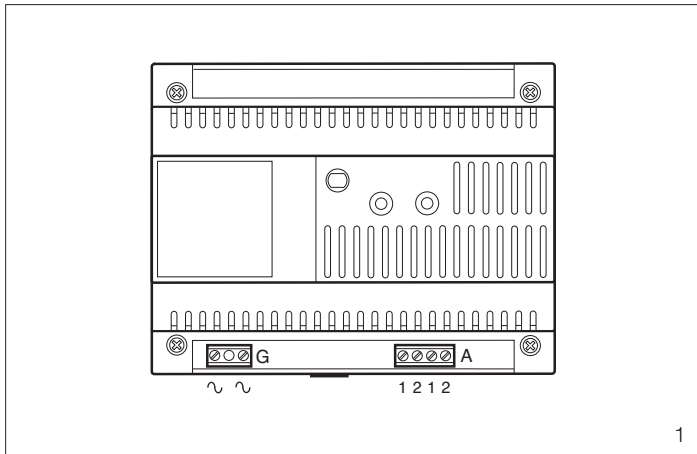
Attention.
Before installing the unit, carefully read the "WARNINGS FOR INSTALLATION" contained in the package.

DC POWER SUPPLIER VAS/100.30
It consist of a card onto which there are the rectifier and the stabilizer.
It is capable of supplying 1.7A at 17.5V DC and is protected against overloading and short circuiting.
The VAS/100 can also be used as a supplementary power supply whenever the system requires it.
NOTE. When designing the installation calculate the number of power suppliers in relation to the total power consumption of all devices in the system.

Function of each terminal (fig.1)
Terminal block G

$\sim$
$\sim$ ⎤ mains

Terminal block A
1 + ⎤
2 − ⎦ 17,5V output
1 + ⎤
2 − ⎦ 17,5V output

Technical features
- Mains supply: 230V AC 50/60Hz. Self-resetting electric safety switch.
- Output voltage: 17.5V DC 1.7A continuous current demand.
- Power absorption: 60VA.
- Working temperature range: from 0 °C to +35 °C.
- Dimensions: 8 DIN units, low profile module, figure 1.

The equipment can be installed without terminal covers into boxes provided with DIN rail (EN 50022).
Dimensions are shown in figure 2A.
Or it can be wall-mounted using the DIN rail provided, applying as necessary the terminal covers and plugs provided.
Dimensions are shown in figure 2B.

NOTE. The unit is protected against overloads and short-cicuits by a self-resetting thermal switch, inserted on the primary of the power supply transformer. Once the switch trips, operation is resumed automatically once the temperature of the transformer drops back below 85 °C. Make sure the cause of the switch tripping is eliminated.
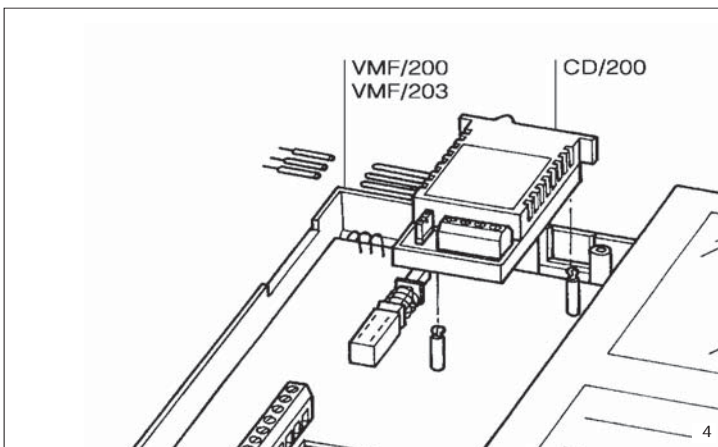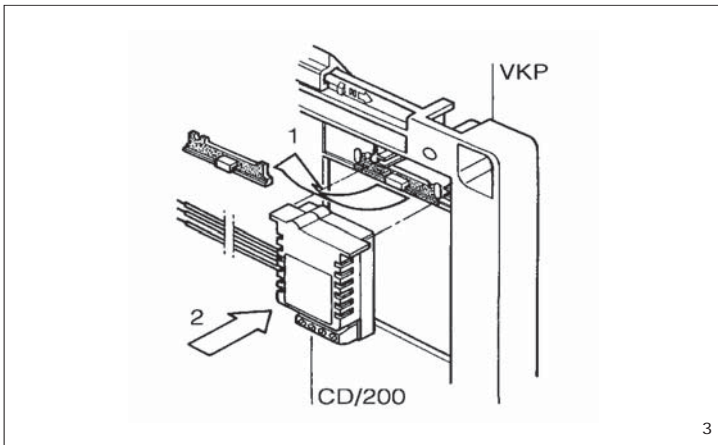
1

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4

5
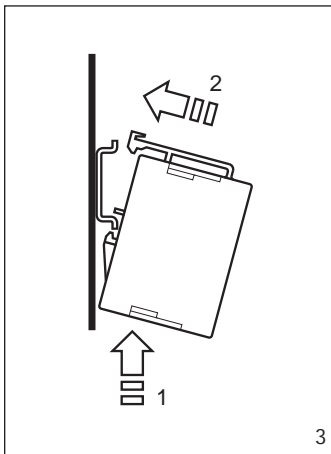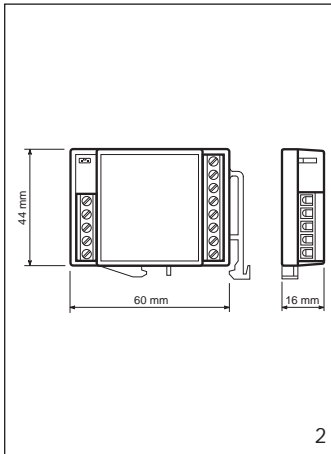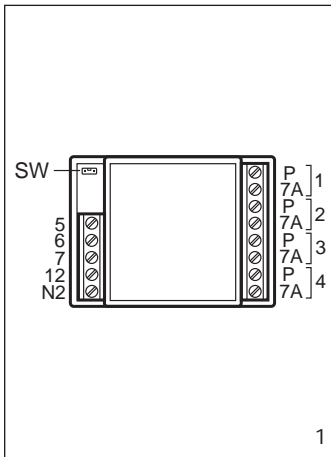

6

CODER/DECODER CD/200

The unit enables the handsets and the monitors (200 and EXEDRA 200 series) to be installed in coded call installations system 200.

A CD/200 must be installed in each receiver, even in installations where more than one receiver is activated by the same call.
An RC/200 call repeater can be connected in parallel to the receiver.
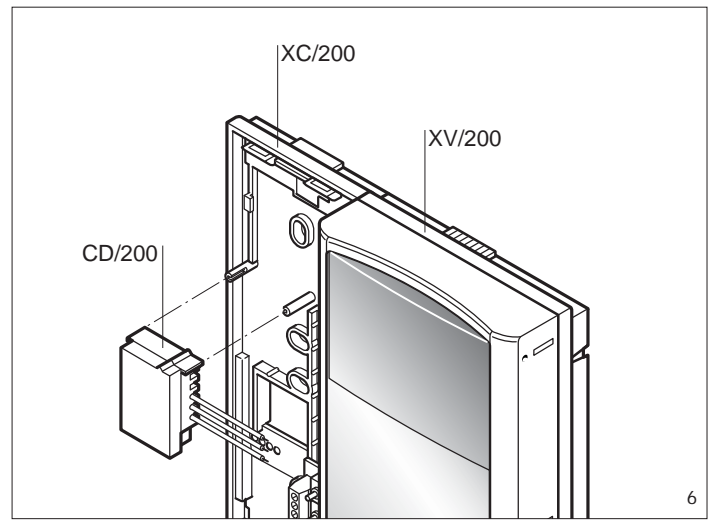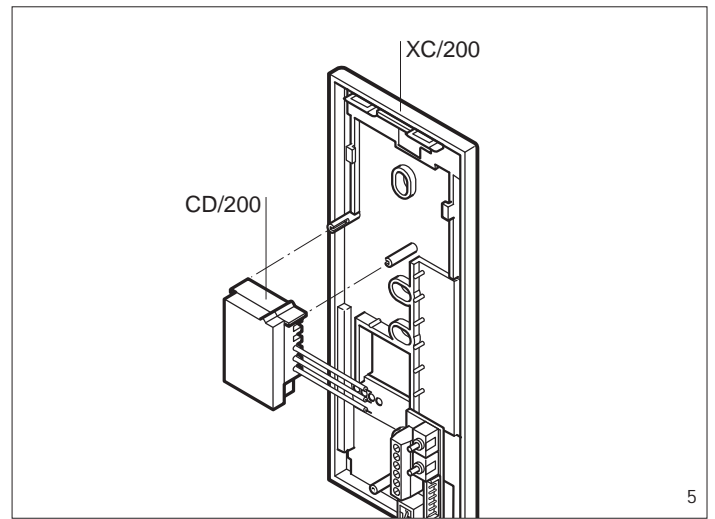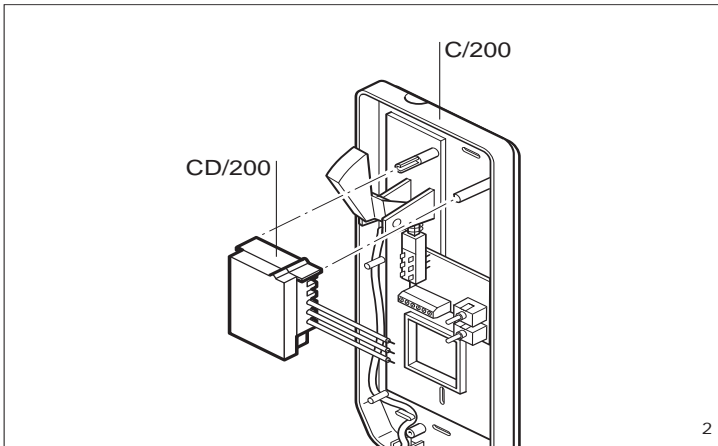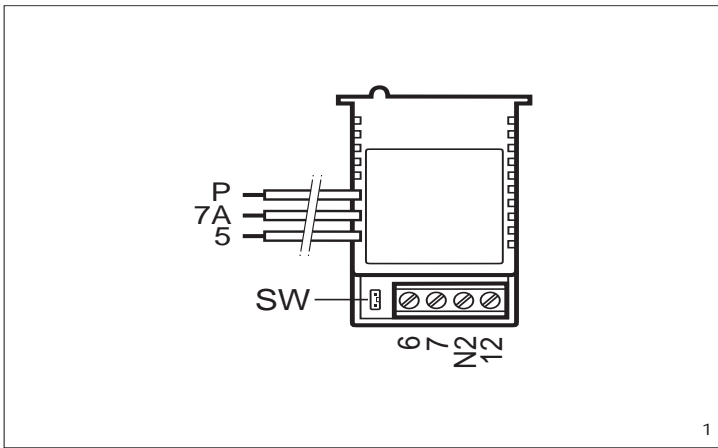
Function of each terminal and wire (fig. 1)
Terminal block
6 +10÷18 VDC
7 coded call from entry panel
N2 enabling of second call note
12 coded call to porter's switchboard

Wires
5 ground
7A call to receiver
P call to porter's switchboard

Programming
- Power up the unit and remove the SW software programming jumper (fig. 1)
- Send the user code via the coded call entry panel or the VPD/100-VPDM/100 porter's switchboard.
- Insert the SW jumper.
N.B. If the programming is carried out via the porter's switchboard, the acknowledgement of the completed programming is given by the code sent to the receiver appearing on the display PORTER CALL.
The unit generates two types of call note:
a) continuous bi-tonal note lasting at least 1 s
b) rings lasting 0.6 s repeated every 2 s, for the duration of the call, with a minimum of 2 rings.
The unit is factory set with the note type a for calls from the entry panel, and with note type b for

calls from the porter's switchboard (the connection must be made to terminal N2 before note type b can be obtained).
The type of note can be inverted by sending the code 80160 (block code) or 13120 (progressive-mode code) to the unit.
In order to reset the initial conditions, send the code 80161 (block code) or 13121 (progressive-mode code) to the unit.
The modification of the call note must be carried out when in programming mode (with the software jumper *SW* disconnected).

Technical features
- Supply voltage: 10÷18 VDC
- Current demand: 1 mA (105 mA during the call)
- Maximum number of CD/200 units which can be connected in a block: 200.
- Working temperature range: from 0°C to 35°C.
- Dimensions: 52x35x17 mm.

Installation
The coder/decoder must be installed in the receiver by following the indications given in fig. 2÷6.
For the VM/200 table-top series, the unit is fitted in an embedding box.

2

CD/200

CD/204

7 coded call from entry panel
12 coded call to porter's switch-board
N2 enabling of second call note

Terminal block C-IN
⌐ P call to porter's switchboard
1 from receiver 1
└ 7A call to receiver 1
⌐ P call to porter's switchboard
2 from receiver 2
└ 7A call to receiver 2
⌐ P call to porter's switchboard
3 from receiver 3
└ 7A call to receiver 3
⌐ P call to porter's switchboard
4 from receiver 4
└ 7A call to receiver 4

Programming
- Power up the unit and remove the SW software programming jumper (fig. 1).
- Send the code relating to the user connected to output 1 via the coded call entry panel, or the VPD/100 porter's switchboard.
If the programming jumper is inserted at this point, the codes following the one transmitted are assigned to the other 3 users in sequence.
If, on the other hand, the installer wishes to assign each user a non-progressive code, send the code relating to the user connected to output 2, followed by the code relating to the user connected to output 3, and lastly the code relating to the user connected to output 4.
- Insert the SW jumper.
N.B. If the programming is carried out via the porter's switchboard, the acknowledgement of the completed programming is given by the code sent to the extension appearing on the display (PORTER CALL).
The unit generates two types of call note:
a: continuous bi-tonal note lasting at least one second;
b: rings lasting 0.6 seconds repeated every 2 seconds, for the duration of the call, with a minimum of 2 rings.
The unit is factory set with the note type a for calls from the entry panel, and with note type b for calls from the porter's switchboard (the connection must be made to terminal N2 before note type b can be obtained).
The type of note can be inverted by sending the code 80160 (block code) or 13120 (progressive-mode code) to the unit.
In order to reset the initial conditions, send the code 80161 (block code) or 13121 (progressive-mode code) to the unit.
The modification of the call note must be carried out when in programming mode (with the SW jumper disconnected).

Technical features
• Supply voltage: 10 ÷ 18 VDC.
• Current demand: 8mA (110 mA during call).
• Maximum number of CD/204 units which can be connected in a block: 200.
• Working temperature range: from 0°C to +35°C.
• Dimensions: 60 x 44 x 16 mm.

FLOOR CODER/DECODER CD/204
The unit enables the C/200 handset, the VM/200 - VM/203 series monitors and VMF/200 - VMF/203 monitors to be installed in coded call installations.
The CD/204 unit enables 4 receivers to be connected and is therefore an excellent solution for encoding/decoding on the floor.
Only one receiver plus an RC/200 call repeater can be connected to a CD/204 output.
Owing to its small size, the unit can be inserted in a regular connector box (90 x 90 x 40 mm), or can be installed on a DIN guide (EN 50022) (fig. 3).
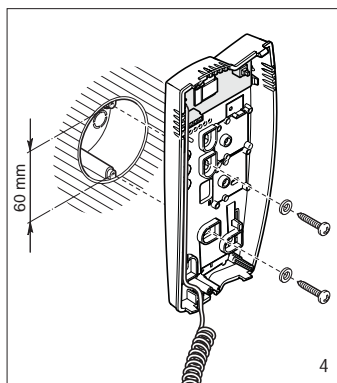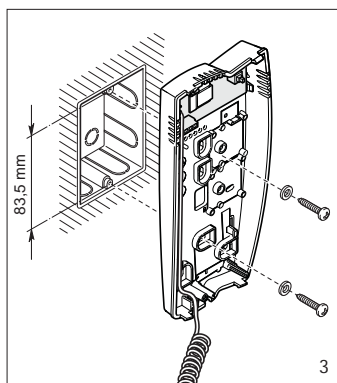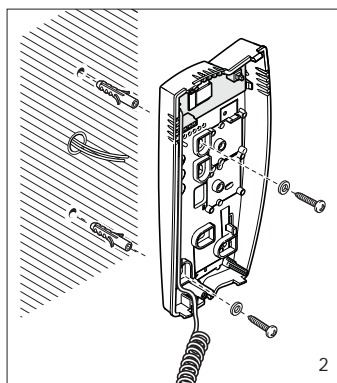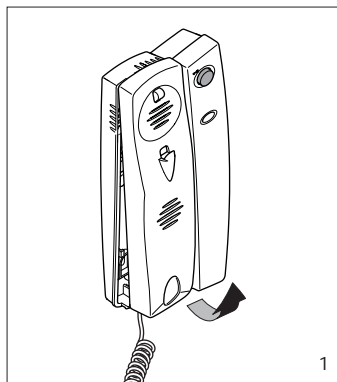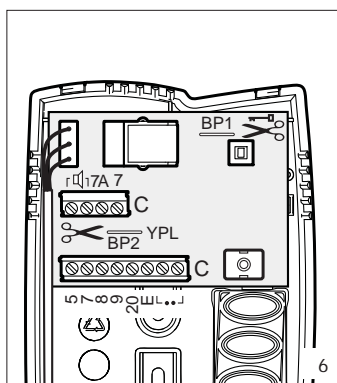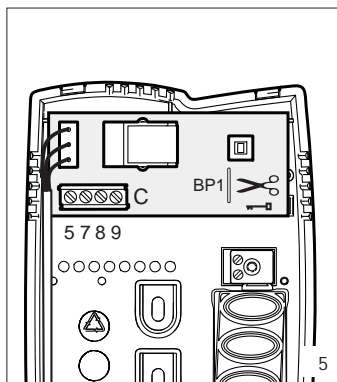
Function of each terminal (fig. 1)
Terminal block C-IN
5 ⌐ 10 ÷ 18V DC
6 +└ supply voltage

YC/200
YC/200A

1

2

83,5 mm

3

60 mm

4

BP1

C

5 7 8 9

5

BP1

7A 7

C

BP2 YPL

C

5 7 8 9 20 E

6

GB **INSTRUCTIONS FOR USE AND INSTALLATION**

HANDSET YC/200
The unit has a door-lock release button ⌐□ and features an electronic call facility. It can accommodate the auxiliary services button (⁚) YP1 and loudspeaker YAL to make the call note more powerful.
- Dimensions: 98x215x63 mm.
Note. In intercom systems, the door-lock release button is enabled while you are talking with the entry panel.

Door-lock release button
Normally the door-lock release button is active. If you want it active only when the receiver is lifted, cut the jumper BP1 (fig.5).

Function of each terminal (fig. 5)
Terminal block C
5   ground
7   call
8   audio from entry panel
9   audio to entry panel

HANDSET YC/200A
Features similar to handset YC/200, it also has a button for auxiliary services ⁚ .

- Maximum switching power of auxiliary services button: max. 24 V, 1 A. Can accommodate 2 modules (YP3 and YPL).

HANDSET YC/201
Handset with secrecy of speech. Features similar to receiver YC/200A. Unit YP3 can be used to add 3 auxiliary buttons to the handset.

Door-lock release button
Normally the door-lock release button is active after having received a call. If you want it active only when the receiver is lifted, after having received a call, cut the jumper BP1 (fig. 6).

Function of each terminal (fig. 6)
Terminal block C
5   ground
7   call
8   audio from entry panel
9   audio to entry panel
20   landing call input
E   audio enabling (¹)
⌐⁚   button for
⌐   auxiliary services

Terminal block C (accessories)
⌐   connection for
▷   YAL loudspeaker
7A ⌐ connection for
7 ⌐ YPL module
(¹) Connection required for special installations (combined audio entry and video entry systems).

Connecting YPL unit
When the YPL unit is installed in the receiver, wire jumper BP2 must be cut (fig. 6).

Installation
First, remove the housing (fig. 1) and fasten the base directly to the wall (fig. 2) or to the embedding box (fig. 3 or 4).
If walls are not perfectly level, do not overtighten screws.

WARNING FOR THE USER
• *Please do not open or tamper with the device.*
• *The device operating with a very low voltage (24 VAC - 50 VDC) and cannot be connected to higher voltages.*
• *In the case of breakdown or modification of the apparatus (such as power supplier…) please contact a specialized maintenance service.*
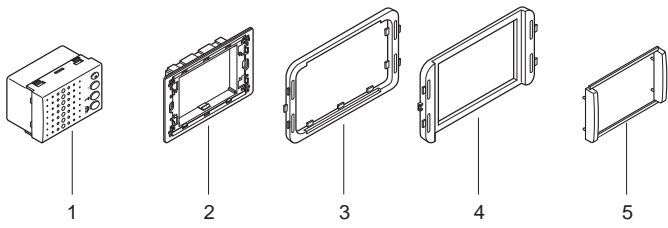
1) Modulo viva-voce/Hands-free module/Modul mit Freisprechfunktion/Module vive-voix/Módulo manos libres/Módulo viva-voz.
2) Telaio/Chassis/Rahmen/Châssis/Bastidor/Estrutura.
3) Adattatore per placca VIMAR/Adapter for VIMAR plate/Adapter für Tableau VIMAR/Adaptateur pour platine VIMAR/Adaptador para placa VIMAR/Adaptador para placa VIMAR.
4) Adattatore per placca AVE/Adapter for AVE plate/Adapter für Tableau AVE/Adaptateur pour platine AVE/Adaptador para placa AVE/Adaptador para placa AVE.
5) Adattatore copriforo/Hole plug adapter/Adapter Abdeckklappe/Adaptateur couvre-trou/Adaptador cubre orificio/Adaptador tapa-furo.

NC/220
NC/221
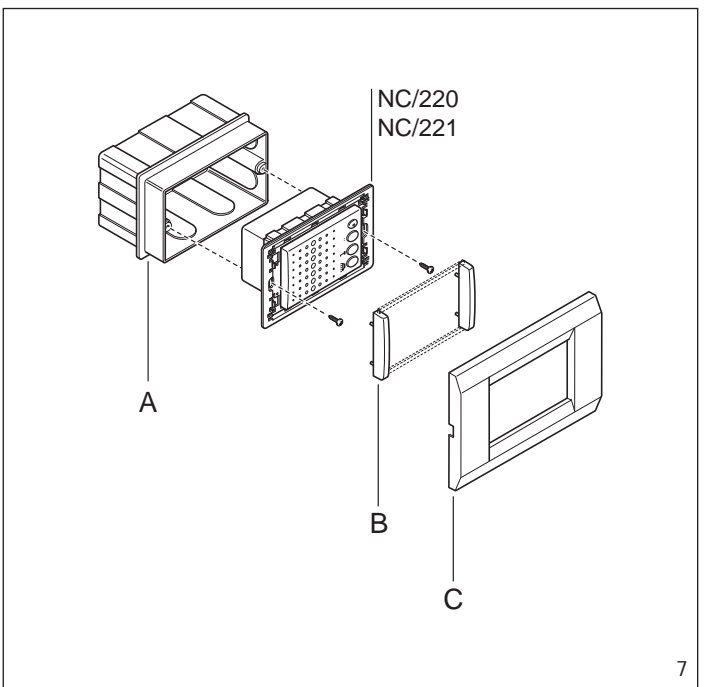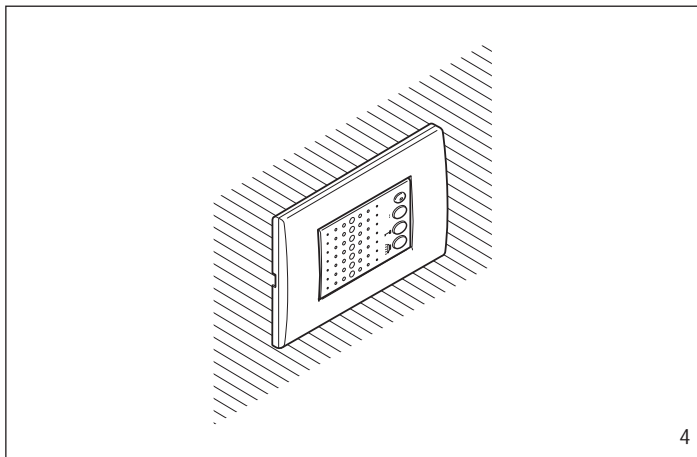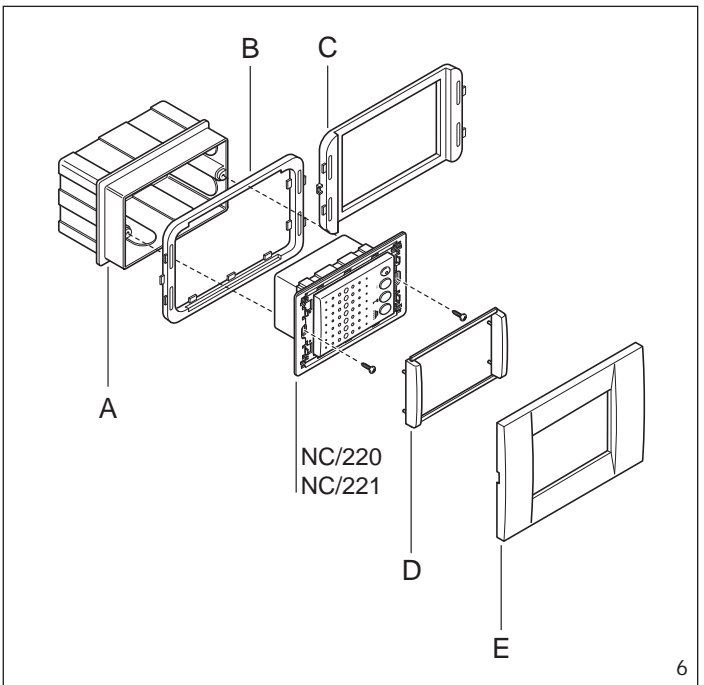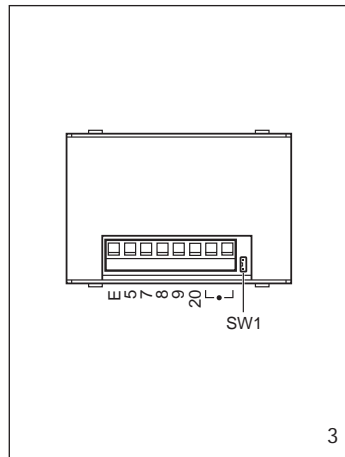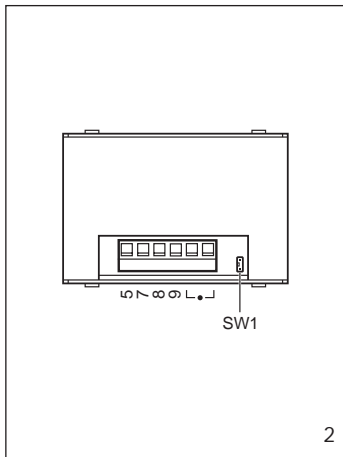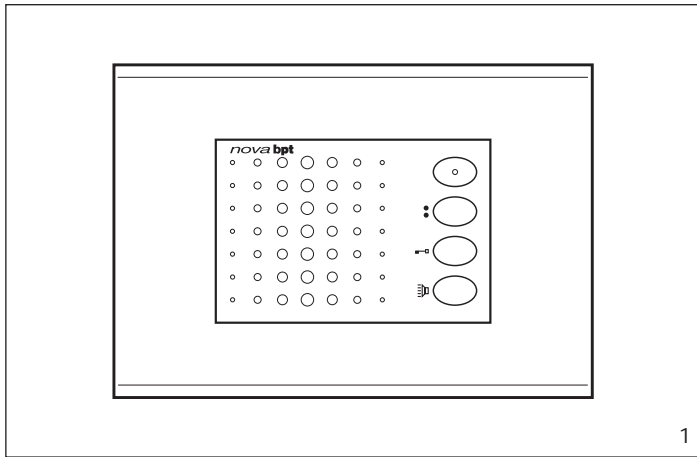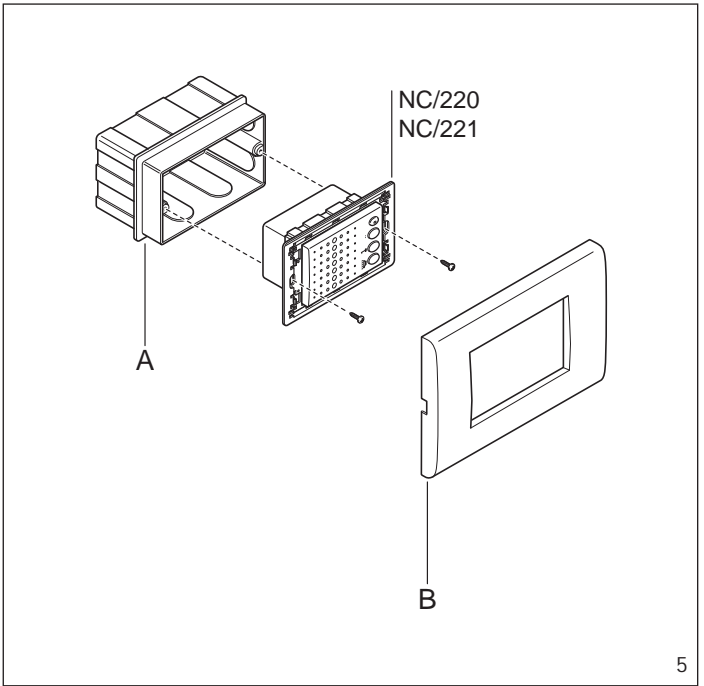
NC/220 HANDS-FREE
AUDIO MODULE

Hands-free audio module for use in series 200 audio entry installations. Is inserted in a standardised rectangular single embedding box.

The unit comes with adapters for the use of a number of commercially available front plate models. Hooks are applied on the back of the module for the possible assembly of the CD/200 decoder.

The operation of the hands-free-module requires the GVV/200 main control unit.

It features the following controls (fig. 1):

⋮ Auxiliary services

⊸▫ Door-lock release

⌷⧸ Audio (the button must be kept pressed for the entire duration of the conversation)

Function of each terminal (fig. 2)
5   power supply (common)
7   call
8   audio to receiver
9   audio to entry panel
•
• ⌉ aux

Function of jumper SW1
Normally supplied ready inserted. Remove the jumper in the event the volume of the call note is to be attenuated (fig. 2).

Technical features
• Maximum switching power of the auxiliary services button: max. 24V 50 mA.
• Working temperature range: from 0 °C to +35 °C.

NOTE. Handsets **cannot** be installed together with NC/220 hands-free modules in the same installation.

NC/221 HANDS-FREE
AUDIO MODULE

Amplified hands-free audio module, similar in design to mod. NC/220, for use in series 200 audio entry (with secrecy speech) and video entry installations.

Is inserted in a standardised rectangular single embedding box or combined with the monitor module in a standardised double embedding box.

The operation of the hands-free module requires the GVV/200 main control unit.

Function of each terminal (fig. 3)
E   enabling
5   power supply (common)
7   call
8   audio to receiver
9   audio to entry panel
20 door bell
•
• ⌉ aux

Function of jumper SW1
Normally supplied ready inserted. Remove the jumper in the event the volume of the call note is to be attenuated (fig. 3).

Technical features
• Maximum switching power of the auxiliary services button: 24V 50 mA.
• Working temperature range: from 0 °C to +35 °C.

NOTE. Receivers with handset and NC/221 hands-free modules can be installed in the same installation.

Installation of the modules
Recess the embedding box flush with the wall at a suitable height for the user.

Examples of assembly of the hands-free module in a standardised single embedding box with a number of commercially available front plates (fig. 4):

1 (fig. 5)
A (embedding box).
B (BTICINO Living series art. L4803 or Light series art. N4803 front plate, VIMAR Plana series art. 14653 front plate).

2 (fig. 6)
A (embedding box).
B (adapter for VIMAR plate).
C (adapter for AVE plate).
D (BPT hole plug adapter).
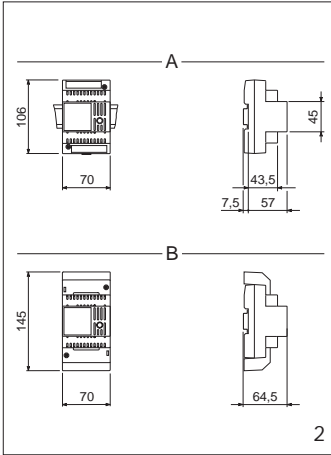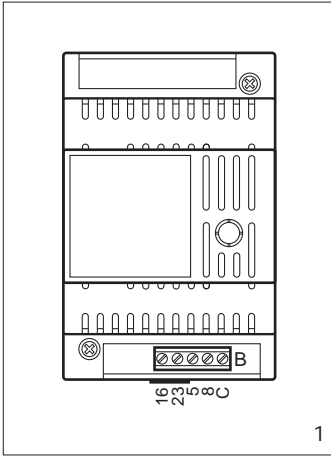E (VIMAR Idea or Rond series front plate, AVE system 45 front plate).

3 (fig. 7)
A (embedding box).
B (BPT hole plug adapter without connecting rods).
C (GEWISS Playbus series front plate).

NOTE. If you need to remove the module from the chassis, do so with the aid of a screwdriver as illustrated in fig. 8 and push from the back.

8

BC/200

1

2
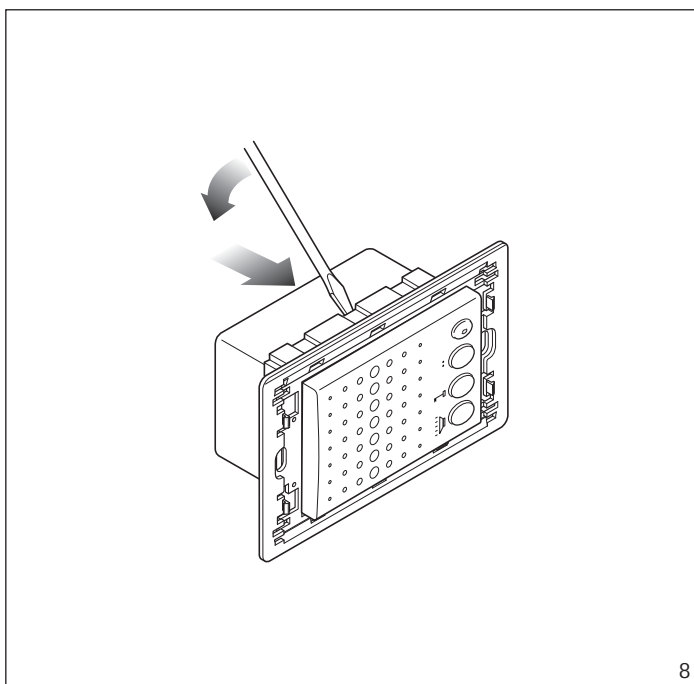
BC/200
CALL BOOSTER

For calling up to 7 receivers simultaneously on audio and video entry systems 200.

Installed directly in series with the entry panel common call wire, it allows more groups of receivers to be connected.

Install more BC/200, with related power supplier AS/200, amplifiers for calling more than 7 receivers simultaneously.

Function of each terminal, figure 1

16 15 V AC
23 supply voltage
23 + 11÷17.5 V DC
5 − supply voltage
8 call common input
C call output

Technical features
- Supply voltage: 11÷17.5 V DC or 15 V AC.
- Current demand: 1.2 A max.
- Working temperature range: from 0 °C to +35 °C.
- Dimensions: 4 DIN units, low profile module, figure 2.
  The unit can be installed without terminal covers into boxes provided with DIN rail (EN 50022).
  Dimensions are shown in figure 2A.
  It can also be surface mounted, using the DIN rail supplied, but fitted with terminal covers. Dimensions are shown in figure 2B.

AS/200

DC POWER SUPPLIER VAS/100.20

It consist of a card onto which there are the rectifier and the stabilizer. It is capable of supplying 1.7A at 17.5V DC and is protected against overloading and short circuiting.

The VAS/100 can also be used as a supplementary power supply whenever the system requires it.

NOTE. When designing the installation calculate the number of power suppliers in relation to the total power consumption of all devices in the system.

Function of each terminal (fig.1)

Terminal block G

~
~ | mains

Terminal block A

1 +
2 − | 17,5V output
1 +
2 − | 17,5V output

Technical features
- Mains supply: 230V AC 50/60Hz. Self-resetting electric safety switch.
- Output voltage: 17.5V DC 1.7A continuous current demand.
- Power absorption: 60VA.
- Working temperature range: from 0 °C to +35 °C.
- Dimensions: 12 DIN units, low profile module, figure 1.
  The equipment can be installed without terminal covers into boxes provided with DIN rail (EN 50022).
  Dimensions are shown in figure 1A.
  It can also be surface mounted,

using the DIN rail supplied, but fitted with terminal covers.
Dimensions are shown in figure 1B.

NOTE. The tunit is protected against overloads and short-cicuits by a self-resetting thermal switch, inserted on the primary of the power supply transformer.
Once the switch trips, operation is resumed automatically once the temperature of the transformer drops back below 85 °C.
Make sure the cause of the switch tripping is eliminated.

AS/200 ADDITIONAL POWER SUPPLIER

Can be used for general purposes. Can power up to 18 MC modules or 9 illumination lamps on AZ entry panels (i.e. 18 call buttons) and DC devices.

Function of each terminal

Terminal block A

~
~ | mains

Terminal block B

16
23 | 14V AC output

+B supply voltage input 12V DC
5 ground
21 supply voltage output 11V DC

Technical features
- Supply voltage: 230V 50/60 Hz. The transformer is electronically protected against overloading and short circuiting i.e. no fuses are used.
  The unit can be powered from a 12V DC power supply, e.g. battery or uninterruptable power supply (terminal +B and 5).
  NOTE. The unit has no battery protection.
- Rated power: 15VA max.
- Output voltages:
  11V DC stabilised, 200mA
  14V AC, 600mA (12V 1.2A peak).
- Working temperature range: from 0 °C to +35 °C.
- Dimensions: 4 DIN units, low profile module, figure 2.
  The power supplier can be installed without terminal covers into boxes provided with DIN rail (EN 50022).
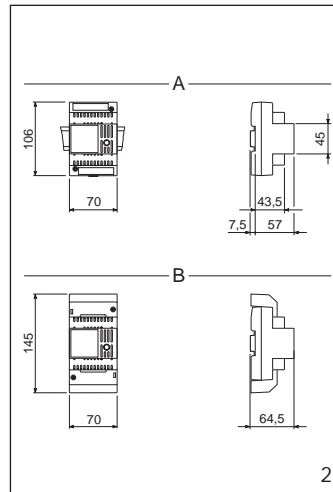 Dimensions are shown in figure 2A.
  It can also be surface mounted, using the DIN rail supplied, but fitted with terminal covers. Dimensions are shown in figure 2B.

NOTE. The transformer primary is electronically protected against overloading and short circuiting i.e. no fuses are used.
Procedure to reset a triggered circuit:
- Disconnect the mains from the unit.
- Remove the cause of malfunction.
- Let the equipment to cool for at least 1 minute.
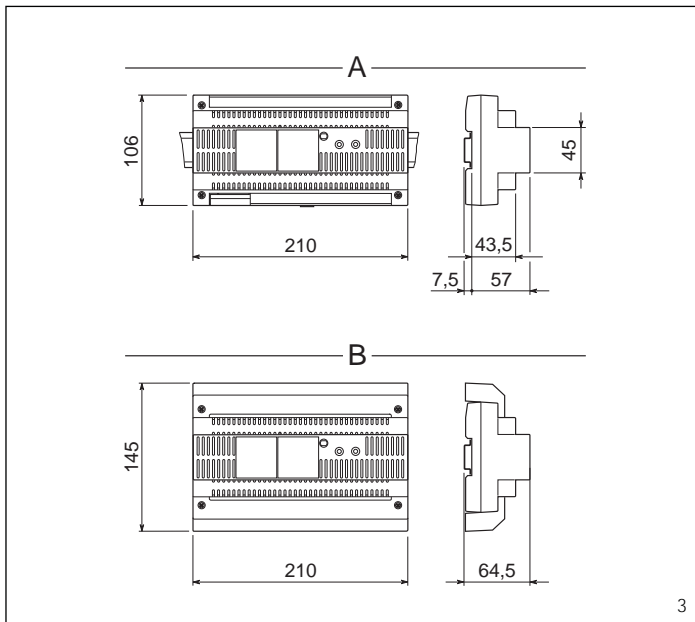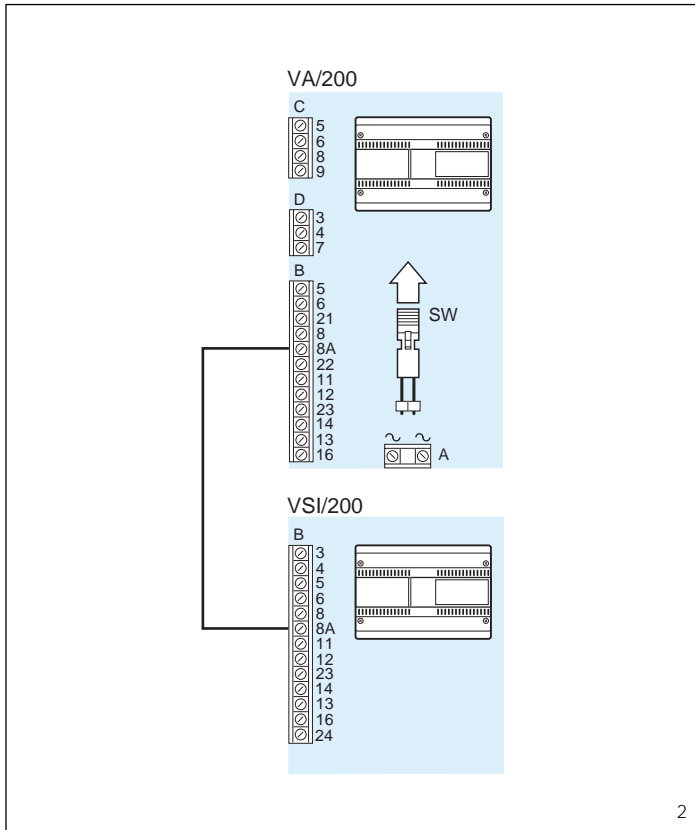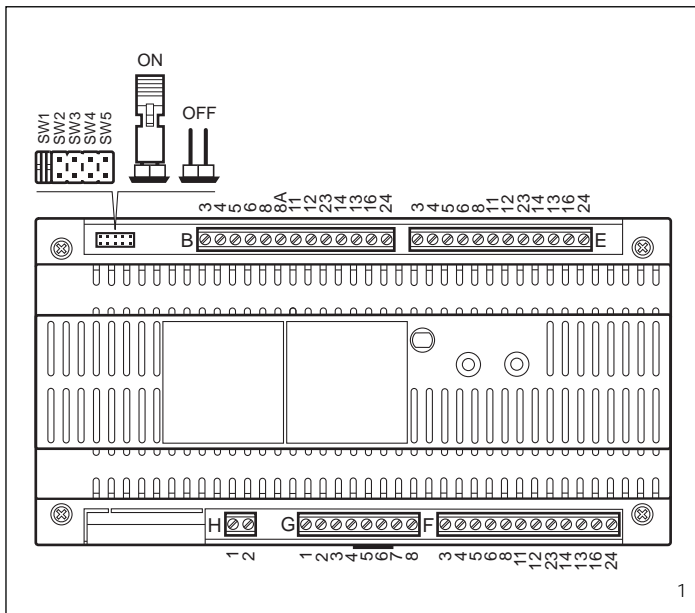*- Reconnect the mains to the unit.*

A

B

2

9.99/2402-8244

VSI/200

1

VA/200

VSI/200

2

A

B

3

GB INSTALLATION INSTRUCTIONS

VSI/200 ENTRANCE SELECTOR
This unit permits the selection of two entry panels and is configured to create the following systems:
• Single or multi-family systems with several entrances using the same number of selectors as there are entry panels minus one.
• Residential systems using the unit as a block selector.

Operating characteristics
• Sequential selection of entry panel or supplementary camera by the monitor.
• Protection of any connections installed and management of the engaged signal irrespective of whether the unit is used as a selector for several entry panels or as a block selector in residential systems (the protection may be disabled by connecting jumper SW2, figure 1).
• The selector is equipped with an amplifier which regenerates the call signal.
• Possibility of connecting up to three internal units to the same call.
• Possibility of trading the origin of an external call by means of different tones which correspond to two different entry panels.
To obtain this function: connect terminal 8A of VSI/200 selector to terminal 8A of VA/200 power supplier (terminal board B) and remove the jumper SW from VA/200 power supplier as shown in figure 2.
WARNING. A differentiated landing call tone is not available in this configuration.

Function of each terminal, figure 1
Terminal block B (to power supplier or preceding selector
3 video signal ⎤ (¹)
4 video signal shield ⎦
5 ⎤ 17,5 supply voltage
6 + ⎦ to entry panel
8 call 1 common
8A call 2 common
11 audio signal to monitor
12 audio signal to entry panel
23 auxiliary door release button
14 entry panel activation
13 + ⎤ 12V supply voltage to
16 ⎦ door release solenoid
24 engaged signal input

Terminal block E (to entry panel no. 1)
Terminal block F (to entry panel no. 2 or subsequent selector)
3 video signal ⎤ (¹)
4 video signal shield ⎦
5 ⎤ 17,5V supply voltage
6 + ⎦ to entry panel
8 call common
11 audio signal to monitor
12 audio signal to entry panel
23 auxiliary door release button
14 entry panel activation
13 + ⎤ 12V supply voltage to
16 ⎦ door release solenoid
24 engaged signal output

(¹) coaxial cable connection; twisted pair connection to terminal blocks B-E-F:
3 positive video signal
4 negative video signal

Terminal block G (services)
1 call 1 input
2 call 2 input
3 12V DC power input
4 engaged signal output (for residential systems)
5 general reset
6 changeover enable-next selector
7 changeover enable-previous selector
8 entry panel selection

Terminal block H (services)
1 call 1 output
2 call 2 output

SW jumper functions, in ON position, figure 1
1 repositioning of selectors following scanning of entry panels activatedby the monitor (only the jumper of the last selector must be set in position ON while all preceding selectors must be set to OFF).
2 deactivation of call protection and engaged signal.
3 resetting of engaged entry panels on audio entry systems by replacing the handset.
4-5 activation of general reset (on residential systems.

NOTE. The selector is supplied with SW1 jumper wired in (installation with 2 entry panels).

Technical features
• Supply voltage: 14,5÷17,5VDC or 12VDC.
• Current demand: max. 80mA (7mA quiescent).
• Working temperature range: from 0 °C to +35 °C.
• Dimensions: 12 DIN units, low profile module, figure 3.
The unit can be installed without terminal covers, in boxes fitted with DIN guide (EN 50022). See figure 3A for overall dimensions.
Alternatively, it can be wall-mounted using the DIN guide provided, and applying the terminal cover.
See figure 3B for overall dimensions.

1

2
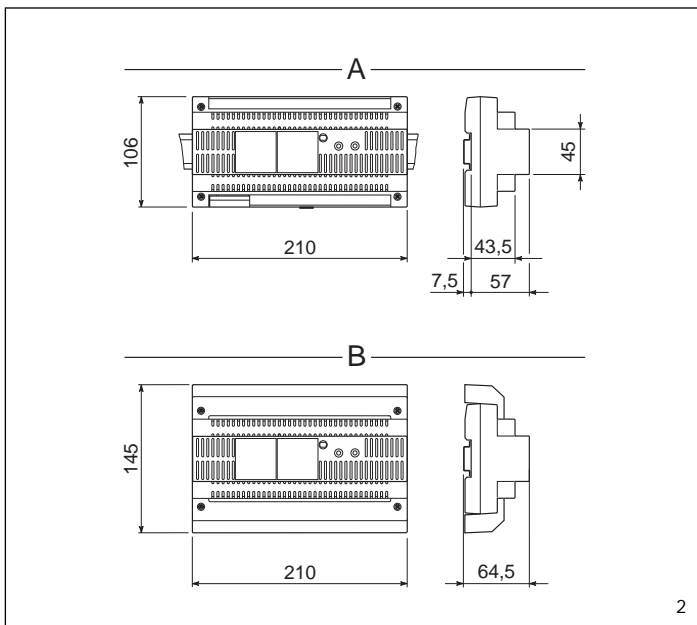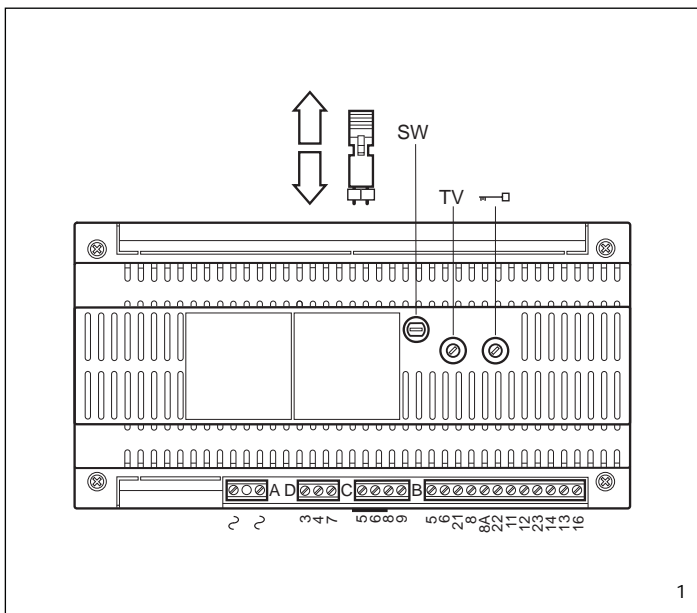
VA/200

VA/200 POWER SUPPLIER

The unit comprises a DC power supplier and system control card.
The unit supplies in direct current:
1 - monitor, entry panel and accessories (17.5V DC stabilized);
2 - auxiliary services (12V DC stabilized);
3 - electrical door lock, 12V DC or AC, 1A.

Operating characteristics

1 - System activation timer.
The installation remains active for 30 secs. following a call at the entry panel. If the handset is lifted during this interval, the activation time is increased by 30 secs. and may be extended to a maximum of 90 secs. by adjusting potentiometer TV, figure 1.
If the system is activated by the entry panel button, located on the internal unit, the system activation time (when not interrupted by another call) may be adjusted between 30 and 90 secs. using potentiometer TV in figure 1.
2 - System deactivation.
The installation is switched off by the system timer once the set time has

elapsed, or on completion of the electrical door lock function.
3 - Call note.
The unit is equipped with two differential call tone generators.
The first generator (terminal 8) is activated each time a call is made at the entry panel which simultaneously causes the system activation timers to switch on.
The second generator (terminal 8A and jumper SW in figure 1 energised) activates without switching on the system. This means that the second generator may be used as a landing call signal.
When jumper SW is de-energised, the activation of the second generator causes the system to switch on, and permits, if required, the identification of two call sources (2 entry panels).
The outputs of the two call generators can simultaneously control a maximum of 3 internal units.
4 - Door lock release (12V 1A)
The supply voltage to the electrical door lock is limited to approximately 1 to 15 secs. (adjusted using the potentiometer ▬▭ in figure 1) also with continuous activation of the door lock release button on the internal unit.
If the door lock release is activated by an auxiliary button (connected to terminal 23), the electrical door lock is energised for the duration of activation of the said button.
5 - Conversation privacy.
The unit powers audio and video conversation privacy when the monitors and handsets (200 and EXEDRA 200 series) are installed in the same system. The handsets must be equipped with SC/200 unit.
The use of C/200 handset, in systems without conversation privacy, requires the installation of EKC/200 capacitor.
6 - Stair light control.
The stair light function may be activated using the monitor (when switched on) using relay VLS/101.

Function of each terminal, figure 1
Terminal block A

~ ⎤
  ⎟ mains
~ ⎦

Terminal block B
5   -⎤ 17.5V supply voltage
6   +⎦ to entry panel
5   ⎤ 12V supply voltage audio
21 +⎦ entry system accessories
8   call common 1
8A call common 2
22 stair light actuator output (VLS/101)
11 audio to monitor
12 audio to entry panel
23 auxiliary door lock release button
14 entry panel activation
13 +⎤ 12V supply voltage
16 -⎦ to electrical door lock

Terminal block C
5   -⎤ 17.5V supply voltage
6   +⎦ to monitor and accessories
8   audio to monitor
9   audio to entry panel

Terminal block D
(coaxial cable connection)
3   video signal
4   video signal shield
7   call no. 1

Terminal block D
(twisted pair connection)
3   positive video signal
4   negative video signal
7   call no. 1

Technical features
• Supply voltage: 230V 50/60 Hz. Self-resetting electric safety switch.
• Rated power: 60VA.
• Output voltages:
  17.5V DC stabilised (0.9A for continuous service and 0.6A for intermittent service) for monitor, entry panel and accessories.
  12V DC stabilised (400mA for continuous service)
  12V DC (0.5A for intermittent service) for electrical door lock.
• Two differential call note generators, controlling up to 3 internal units.
• Installation activation time 30 secs. If the handset is lifted during this interval, the activation time is extended by 30 to a maximum of 90 secs. (adjustable).
• Electrical door lock activation time with time interval adjustment of 1 to 15 secs. Compatible with both direct and alternate current-operated electrical door lock (12V DC, AC, 1A).
• Stair light actuator output: type VLS/101.
• Working temperature range: from 0 °C to +35 °C.
• Dimensions: 12 DIN units, low profile module, figure 2.
  The unit can be installed without terminal covers, in boxes fitted with DIN guide (EN 50022).
  See figure 2A for overall dimensions.
  Alternatively, it can be wall-mounted using the DIN guide provided, and applying the terminal cover.
  See figure 2B for overall dimensions.

NOTE. The tunit is protected against overloads and short-cicuits by a self-resetting thermal switch, inserted on the primary of the power supply transformer.
Once the switch trips, operation is resumed automatically once the temperature of the transformer drops back below 85 °C.
Make sure the cause of the switch tripping is eliminated.