

# PROXIMA SERIES

**Multi-functional hybrid control units  
for intrusion detection systems**



Addressee for this information:  User |  Installer

## 1 LINKS

Scan a QR code to reach the page of the related product on the [www.elmospa.com](http://www.elmospa.com) website.

An easy registration is required.

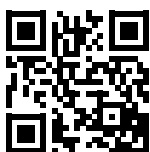
Software and all the technical documentation are available on product page.



PRX128  
[bit.ly/321D5si](http://bit.ly/321D5si)



PRX128M  
[bit.ly/3nLXnmH](http://bit.ly/3nLXnmH)



PRX256  
[bit.ly/2WCeWaE](http://bit.ly/2WCeWaE)



PRX1024  
[bit.ly/36ox8J2](http://bit.ly/36ox8J2)

## 2 DESCRIPTION

PROXIMA is a series of multi-functional hybrid control units supporting both wired and wireless devices.

Main features:

- Management of 64 sectors, 16 onboard zones (32 with SPLIT function) expandable up to 128/256/1024 zones, 128/256/1024 outputs, 1024 users, up to 32 control devices.
- Integrated on board: 10/100 Mbps Ethernet module, 1

device USB port + 1 host USB port, 1 slot for MicroSD card (up to 128 GB), 2 independent ULTRABUS RS-485 serial lines, 2 independent outputs for 12V device power supply, 2 programmable relay outputs.


- Support of optional modules (2 slots available on board).
- Support of all EL.MO. serial line devices with ULTRABUS RS-485 interface.
- Compatibility with first-generation and NG-TRX wireless technology.
- It can be connected to e-Connect software platform.

The user manual and this quick guide are supplied with the control unit.

This guide contains a summary of the operation concerning PROXIMA control unit mounting and commissioning.

For complete and detailed information, please see technical and programming manuals available on [www.elmospa.com](http://www.elmospa.com) website.

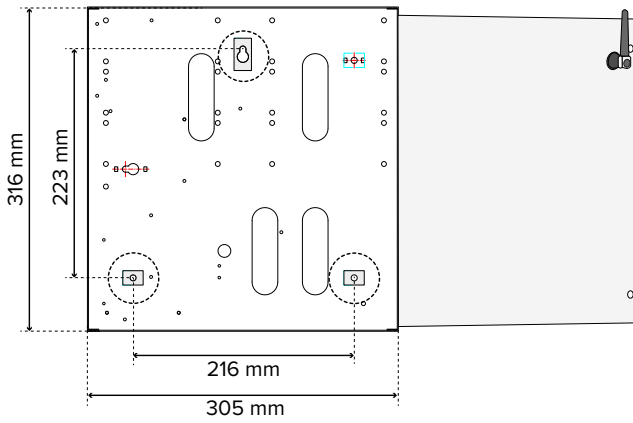
## 3 INSTALLATION

 Please see control unit technical manual for detailed information.

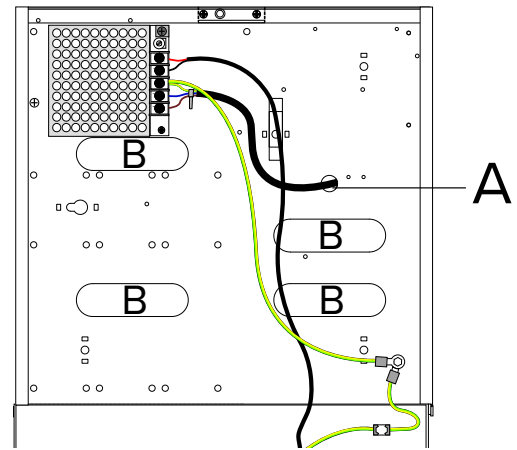
- unscrew cover closing screws
- open control unit door

Each case can be installed so that its door can be flap opened or opened on side.

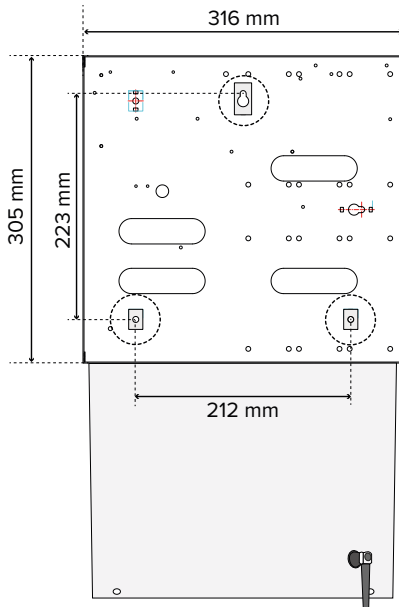
For PRX128: move the support brackets as indicated in pictures below, according to the desired control unit mounting (for door flap opening or side opening).



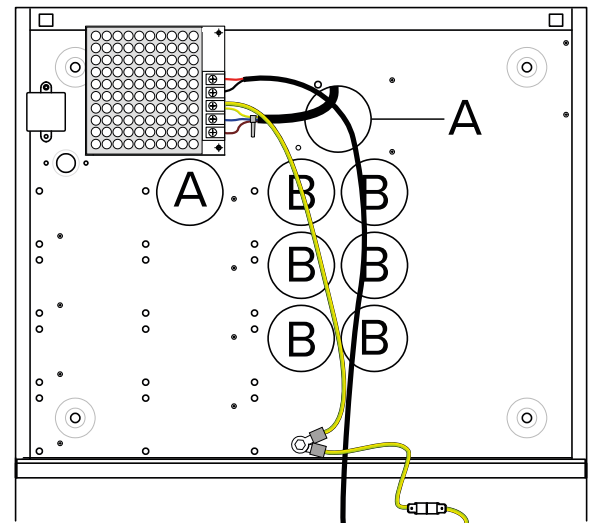
PRX128: side opening (rear view)



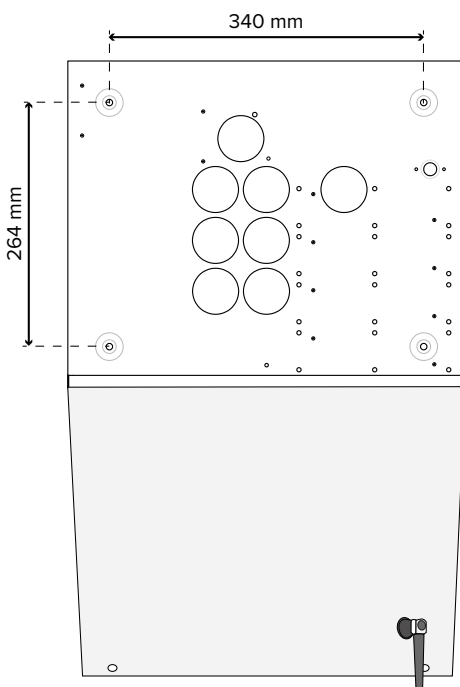
Cable feeding for PRX128.



PRX128: flap opening (rear view)



Cable feeding for PRX256 and PRX1024.



PRX256, PRX1024: flap opening (rear view)  
(for side opening, the fixing centre to centre distance are the same)

- fix the control unit case to the wall using screws and dowels suitable for the type of wall (not included)

- feed 230 V mains cable through hole A
- feed system cables through holes B

**!** *Make sure power source is disconnected.*

- wire mains cables to phase and neutral terminals of the power supply unit (N and L terminals)
- wire ground cable to central terminal  $\perp$
- wire power supply output cables (+ and - terminals) to connector J11 on board
- arrange the battery inside the case: place two double-sided adhesive tape strips (supplied) between the battery and the bearing plane on control unit bottom
- connect the black and red cables (coming from control unit board) to battery terminals
- wire the control unit switches for protection against opening and removal and the device tamper contacts in series with TAMPER terminals on control unit board

### Modules

- install the required modules directly on control unit board, as explained in technical manual
- The modules have to be registered afterwards using **REGISTER MODULES** menu item in the installer menu.

## Devices

- wire at least one keypad to the control unit serial line in order to access the configuration menu
- connect proximity key readers, wired devices, wired sirens, concentrators and GATEWAY2K as indicated in their technical manuals

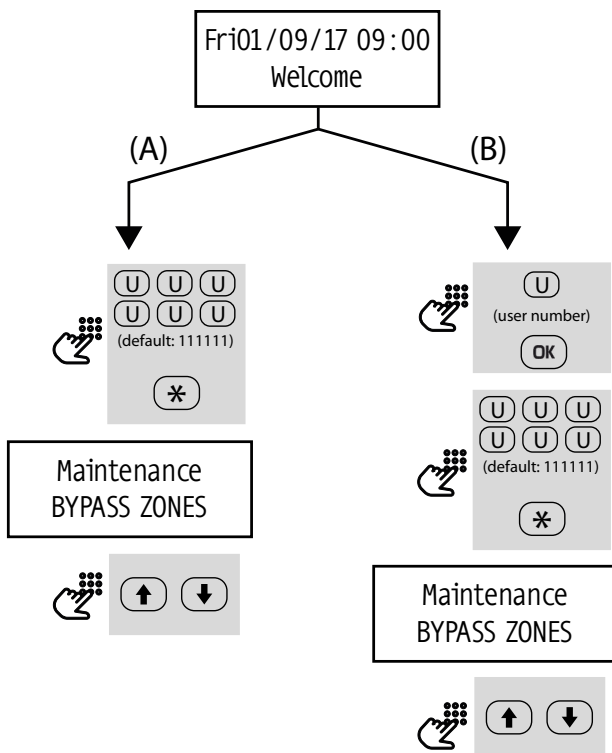
Having performed wiring, proceed as follows:

- fix to proper fixing points all the cables wired to the control unit board
- power the control unit
- configure the control unit as indicated in chapter 4 p. 3
- perform final system test
- close control unit case

## 4 SETUP

Control unit configuration operations will require the use of the keypad installer menu and the BrowserOne software. The two elements are complementary.

In order to configure the control unit, the installer has to be authorised to access the user's system. The user has to provide the installer with the authorisation using a specific keypad menu item:



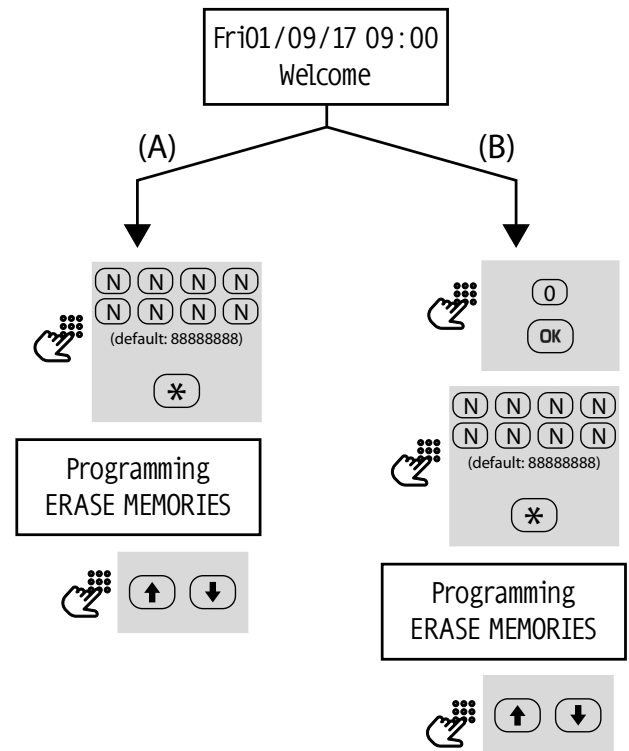
- A** "simplified codes" mode
- B** user number + user code mode

- if "simplified codes" mode is not active, enter the user number and then OK
- key in user code (6 digits)
- press \*
- use arrow keys ↑ or ↓ to go to **INSTALLER AUTH.** option
- press OK
- set **TEMPORARY** or **PERMANENT** authorisation to access the system

From this moment, the installer will be able to access the system according to the granted authorisation.

## Access to the keypad installer menu

To access installer menu from a keypad:



- A** "simplified codes" mode
- B** 0 + installer code

- if simplified codes mode is not active: key in code 0 followed by OK
- key in installer code (8 digits, default: 88888888)
- press OK
- use arrow keys ↑ or ↓ to browse among available options
- press OK to enter a menu item, Stop to exit setup
- if you press Stop repeatedly after an operation, you may be asked to save changes

## BrowserOne installation

The first installation of requires BrowserOne an Internet connection.


- login to the [www.elmospa.com](http://www.elmospa.com) website
- from BrowserOne page, download BrowserOne\_[version number]\_web.exe file: launch it and follow indications on screen
- from BrowserOne page, download [Control unit model] [version number]\_setup.exe file: launch it to install the module
- open BrowserOne

## Guide to first configuration

The next paragraphs describe the most common configuration operations.

In case of first configuration, follow steps in the order given to configure the unit so that it will already manage the

fundamental functions of the intrusion detection system. The operations require the installer to access the keypad menu and use BrowserOne software.

 *In any case, we recommend consulting the control unit programming manual and the manuals of the single devices for details on all the available configuration options.*

#### ▼ Preliminary step: control unit turn on and automatic learning of the connected devices

With unpowered control unit:

- install all necessary modules on control unit board
- install and connect to the control unit all peripheral devices that use RS-485 ULTRABUS serial interface: control devices (at least one keypad), concentrators, detectors, power supply units, sirens etc.

Upon first supply it is possible to register the installed modules and to learn ULTRABUS peripheral devices automatically:

- press and hold OK key on keypad with address 1
- power up the control panel
- when message **FACTORY DEFAULT?** appears, release OK key
- press ↑ and then ↓
- wait for message **REGIST. MODULES?** to appear
- press OK to register the installed modules
- wait for message **DEVICES LEARNING?** to appear
- press OK to learn serial line peripheral devices


The registration of the peripheral devices will take 2 minutes max.

- ▼ **1. Connect the unit to BrowserOne** → § 4.1 p. 4
- ▼ **2. Connect keypads and readers** → § 4.2 p. 4
- ▼ **3. Connect RIVER and serial line detectors** → § 4.3 p. 4
- ▼ **4. Register modules** → § 4.4 p. 5
- ▼ **5. System partition** → § 4.5 p. 5
- ▼ **6. Learn devices to RIVERRF** → § 4.6 p. 5
- ▼ **7. Learn devices to GATEWAY2K** → § 4.7 p. 5
- ▼ **8. Configure zones** → § 4.8 p. 6
- ▼ **9. Configure a user** → § 4.9 p. 6
- ▼ **10. Assign sectors to a user** → § 4.10 p. 6
- ▼ **11. Configure outputs** → § 4.11 p. 6
- ▼ **12. Learn and configure remote controls** → § 4.12 p. 7
- ▼ **13. Configure the telephone dialler** → § 4.13 p. 7
- ▼ **14. Connect the unit to e-Connect** → § 4.14 p. 7
- ▼ **15. Lock the system** → § 4.15 p. 7
- ▼ **16. Perform system tests** → § 4.16 p. 8
- ▼ **17. Update** → § 4.17 p. 8

## 4.1 Connect the unit to Browserone

Follow these instructions to connect the control unit via USB to the PC that runs BrowserOne.

Other types of connections are available.

- open BrowserOne
- go to **Connect > Connect to...** menu
- select the **Connection type**, for example "Serial or USB"
- click on **Next**
- connect the unit to the PC by using a mini-B USB cable (not supplied)
- wait for the COM port virtualization software to be loaded
- the **Serial connection** window will open: click on icon  to refresh the available communication ports
- select "ELMO Virtual COM" from drop-down menu
- select **Next**: the software will attempt to start the connection
- when the connection is fine, enter installer code and select OK
- load control unit module using **Modules** menu

## 4.2 Connect keypads and readers

- connect at least one keypad to the unit serial line and configure it as indicated in its manual
- connect proximity key readers if needed
- open BrowserOne
- go to page **Control devices > Keypads**
- select the grid row corresponding to the keypad/reader
- select the type of keypad or proximity key reader from **Type** drop-down menu
- check that the address is correct in the **Address** field (number 1 if the keypad is the only one connected)
- configure the advanced keypads (if present) clicking on **Open management window**

For keypads:


- select the keypad presentation area from column **Area displayed**
- select the keypad pertaining areas from column **Pertaining areas**

For proximity key readers:

- select the proximity key reader pertaining area from column **Pertaining area**
- select the proximity key pertaining sectors within the selected area from column **Pertaining sectors**

## 4.3 Connect RIVER and serial line detectors

Connect RIVER concentrators and serial line detectors. Configure them as indicated in their technical manuals.

 *In particular, for RIVER concentrators balance zones using the 4 dedicated switches group and set the address using the 8 dedicated switches group. Leave switch number 8 set to OFF.*

- open BrowserOne
  - read unit configuration using the dedicated button on the controls bar
  - go to **Zones > Cable Devices** page
- In case of concentrator:

- in **Zone Type** drop-down menu select **Wired Concentrator**
- in panel **Device type**, select the number of inputs (8, 4, 2)

If case of serial line detector:

- in **Zone Type** drop-down menu select **Sensor 485**
- in **Advanced devices configuration** pane, click on **Open configuration form**: a window will open to manage several detector functions

For further information, see detectors manual.

#### 4.4 Register modules

Install each module directly on control unit main board, as shown in its technical manual.

Proceed with registration:

- enter keypad installer menu
- use arrow keys ↑ or ↓ to go to **REGISTER MODULES** option
- press OK to enter the menu

The already registered modules will be shown: use arrow keys ↑ or ↓ to display them.

- press OK to update modules registration

The installed modules (that are not in the list yet) will be registered.

The modules that are not present anymore will be deleted.

At the end, the unit will beep for confirmation.

- press Stop to exit the menu

#### 4.5 System partition

The control unit can manage up to 64 sectors grouped in areas.

Select grouping mode according to the dimension of the areas to be protected, to the access points of such area, and to the access authorizations planned for users.

- open BrowserOne
- in page **System Options > General**, select the operating mode in **Sectors per area mode** drop-down menu

Each zone can be associated to more than one sector.

In **Zones > Assign Area/Sector** page:

- select the row of the desired zone
- in column **Area N Sectors**, select sectors of area N to which associate the zone (e.g, if you want to associate the zone to sectors 2 and 3 of area 1, in column Sectors Area 1 check boxes 2 and 3)

When finished, write the configuration to the unit by pressing the relative button in command bar.

#### 4.6 Learn devices to RIVERRF

RIVERRF is compatible with first-generation wireless devices.

It is possible to learn both detectors and remote controls.

Wire RIVERRF concentrator and set its address as indicated in its technical manual.

- enter keypad installer menu
- use arrow keys ↑ or ↓ to go to **LEARN RADIO DET.** option
- press OK to enter the menu

- use arrow keys ↑ or ↓ to go to the zone desired, or enter the zone number directly

- press OK
- if there is already a detector learned for that zone, press 1 to cancel it or Stop to leave it unchanged
- press OK to start learning a new detector for that zone
- press 2 (wireless detector of Villeggio/Helios system)
- make the detector transmit an event (normally by pressing and releasing tamper button: see the relevant manual)
- wait for the confirmation or error beep sound
- press Stop to exit setup
- press Yes to save configuration, No to cancel changes made
- open BrowserOne
- connect the unit to BrowserOne
- read unit configuration using the dedicated button on the controls bar
- go to page **Zones > Radio Devices**
- select the grid row corresponding to the zone used to learn the device
- from **Zone Type** drop-down menu, select River Rf
- set supervision time using **Supervision Time** drop-down menu
- in case of remote control devices learning, select the user from the drop-down menu **Associated User**

#### 4.7 Learn devices to GATEWAY2K

GATEWAY2K is necessary for the connection of NG-TRX devices.

Wire GATEWAY2K concentrator and configure it as indicated in its technical manual.

- open BrowserOne
- go to **Serial devices** page
- select the grid row corresponding to GATEWAY2K
- in column **Type**, select "Gateway GATEWAY2K" from the drop-down menu
- write the configuration to the unit selecting the relevant button on command bar
- enter keypad installer menu
- use arrow keys ↑ or ↓ to go to **FAST ACQUIRE** option
- press OK to enter the menu
- press Stop repeatedly to browse among second level items, OK to enter items menu:

- ▼ **NEW REMOTE?**  
Option to learn NG-TRX remote controls.
- ▼ **NEW SENSOR?**  
Option to learn NG-TRX detectors.
- ▼ **NEW SIREN?**  
Option to learn NG-TRX sirens. Sirens have to be set to "Code Self-Learning" mode during learning (coloured jumper kept close).

See programming manual for configuration steps details.

- open BrowserOne
- read unit configuration using the dedicated button on the

controls bar

- in page **Zones** > **Radio Devices NG-TRX**, set device parameters

See the detector's technical manual.

When finished, write the configuration to the unit by pressing the relative button in command bar.

## 4.8 Configure zones

A zone can be connected to a wired or wireless device (detector, contact, etc.).

Wire the device (if wired) or learn the device (if wireless, as indicated in paragraphs 4.6 p. 5 and 4.7 p. 5).

- open BrowserOne
- go to **Zones** page
- select the grid row corresponding to the zone (for example, if you are operating on zone 1 click on row 01)

In **General** tab:

- enter an identifying name in **Zone Name** field
- from drop-down menu **Zone Type**, select the type of connected zone
- in panel **Zone Options**, assign properties to the zone by checking the desired boxes

Example: check **Exit Path** box if you want to include the zone into the exit path set for leaving the area within a set time.

 *For detailed information, please see programming manual.*

- when finished, check **Connected** box to enable the zone
- repeat the procedure for all zones used

To write configuration to the unit, click on the specific button on controls bar.

### Configuration from keypad

As an alternative, it is possible to configure wired zones using the keypad.

Only the zones of area 1 can be configured with this procedure.

Use BrowserOne for a more complete configuration.

- key in installer code (8 digits, default: 88888888)
- press OK
- use arrow keys **↑** or **↓** to go to **SYSTEM SETTINGS** option
- press OK to enter the menu.
- use arrow keys **↑** or **↓** to go to **ZONES** option
- press OK to enter the menu
- press **↓** or **↑** to reach the desired zone or enter the zone number directly
- press OK to enter the zone
- press **↓** or **↑** to reach the desired menu items

Use items in this menu to enable zone connection, set its type and several properties.

## 4.9 Configure users

- open BrowserOne

- go to page **Users** > **General**

- select the row of the user desired (example: the row 01 for the user 01)

- enter an identifying name in **User Name** field

In **User Code** pane:

- click on **Change user code** to assign a 6-digit code to a user

- flag **Enable code from [...] function**

In **User Options** pane:

- check **Basic Maintenance** to enable access to keypad user menu for the specific user

When finished, write the configuration to the unit by pressing the relative button in command bar.

### Configuration from keypad

As an alternative, it is possible to configure users using the keypad.

Only users of area 1 can be configured with this procedure.

Use BrowserOne for a more complete configuration.

- key in installer code (8 digits, default: 88888888)
- press OK
- use arrow keys **↑** or **↓** to go to **SYSTEM SETTINGS** option
- press OK to enter the menu.
- use arrow keys **↑** or **↓** to go to **USERS** option
- press OK to enter the menu
- use arrow keys **↓** or **↑** to reach the desired user, or enter the user number directly
- press OK to enter user page
- press **↓** or **↑** to reach the desired menu items

Use the items in this menu to enable the user to enter maintenance menu and set his code.

## 4.10 Assign sectors to a user

It is possible to associate to each user:

- sectors authorised: sectors that users can set. Users cannot arm/disarm unauthorised sectors.
- sectors proposed: sectors proposed to users for arming during pre-arming time.

- open BrowserOne

- go to page **Users** > **Sectors Authorized/Proposed**

- select the row of the user desired (example: the row 01 for the user 01)

- select sectors authorised and proposed for each area in the dedicated columns

Example: to assign to user 1 sector 2 of area 3 as authorised sector:

- select user row
- click on column Sectors authorised Area 3
- check box 2

To write configuration to the unit, click on the specific button on controls bar.

## 4.11 Configure outputs

- open BrowserOne

- go to **Outputs** page
- select an output row (example: row 01 if you want to manage output 01)
- assign to outputs a specific function (if needed): select it from drop-down menu **Output function**

Once an output function has been selected, some editable parameters concerning this function may appear at the bottom of the page.

- click on **Output function editor** to open a graphic editor to create advanced functions

When finished, write the configuration to the unit by pressing the relative button in command bar.

#### 4.12 Learn and configure remote controls

- enter installer menu on keypad (installer code + OK)

To learn non-NG-TRX remote controls:

- use arrow keys **↑** or **↓** to go to **LEARN RADIO DET.** option
- press OK then follow configuration steps

To learn NG-TRX remote controls:

- use arrow keys **↑** or **↓** to go to **FAST ACQUIRE > NEW REMOTE?** option or to **LEARN PROXI R.C.** option
- press OK then follow configuration steps

Once the remote control has been learned:

- open BrowserOne
- assign sectors authorised and proposed to the user to whom the remote control is associated, see 4.10 *p. 6* section

#### 4.13 Configure the telephone dialler

- install and register MDPSTN or MDGSME module
- MDPSTN module supports voice/digital calls; MDGSME module supports voice/digital calls and SMS texting.

- open BrowserOne
- go to page **Telephone Dialler > User Telephone Number List**
- enter phone numbers to send messages to (up to 16) in column **User Telephone Number**

##### Enable calls

- go to tab **Voice/Digital Dialler**
- flag **Activate Voice Dialler**
- select the row of the event for which the calls will be started
- in drop-down menu **Associated Message**, select the message to play during the call (Predefined, or one of 64 messages recordable via MDVOICE64 module)
- in column **Voice Phone Numbers Activation**, check the boxes (1 to 16) corresponding to numbers to call for such event
- repeat the procedure for all events desired.

##### Enable SMS (MDGSME module required)

- go to tab **GSM Dialler**
- flag **Activate SMS Transmission Upon Event**

- select the row of the event for which SMS will be sent
- in drop-down menu **Associated Message**, select the message to be sent for such event (Auto-composed, or one of 64 messages definable in tab Customized SMS)
- in drop-down menu **SMS Phone Numbers Activation**, check box(es) (1 to 16) corresponding to numbers to send SMS to
- repeat the procedure for all events desired.

When finished, write the configuration to the unit by pressing the relative button in command bar.

#### 4.14 Connect the unit to e-Connect

- open BrowserOne
  - go to page **System Options > Network parameters**
- in case of access using built-in LAN module:
- in panel **Ethernet**, configure connection parameters
  - in pane **e-Connect**, select **Enable Ethernet connection to e-Connect**
- in case of access using MDGSME module:
- in pane **e-Connect**, select **Enable GPRS connection to e-Connect**
  - enter APN
  - set connection parameters
  - write the configuration to the unit selecting the relevant button on command bar
  - enter installer menu on keypad (installer code + OK)
  - use arrow keys **↑** or **↓** to go to **INTERNET ACCOUNT** option
  - press OK to enter the menu
  - press 1 to start recording, Stop to exit the menu
  - enter registration code (9 digits) received via email for the registration to e-Connect
  - press OK
  - when finished, the message REGISTERED will appear
  - press Stop to exit the menu
  - open BrowserOne
  - read unit configuration using the dedicated button on the controls bar

#### 4.15 Lock the system

It is possible to lock the system before maintenance sessions or device installation.

- enter installer menu on keypad (installer code + OK)
- use arrow keys **↑** or **↓** to go to **SYSTEM LOCK** option
- press OK to enter the menu
- press OK to lock the system

The keypad and proximity key reader LEDs will blink and the following message will appear:

SYSTEM LOCK  
IDLE

It is now possible to perform maintenance operations.

- once done, press Stop to exit this menu and unlock the system

## 4.16 System test

A system test to check system functioning will be periodically necessary.

The unit will remind the user at regular intervals.

In order for the test to be completed, at least one zone shall have Walk Test property

This property can be enabled in page **Zones > General**, pane **Zone Options**: check **Walk Test** box.

- enter user menu on keypad (user code + \*)
- use arrow keys ↑ or ↓ to go to **SYSTEM TEST** option
- press OK to enter the menu

The test includes 4 steps: ZONE TEST, OUTPUT TEST, DIALLER TEST, BATTERY TEST.

- use arrow keys ↑ or ↓ to browse among available steps
- press OK to start a test step

 See user manual for detailed information.

Run and complete all test steps.

## 4.17 Update

### Control unit / device firmware update


- open BrowserOne
- in menu bar, select **Tools**
- select **Firmware Update Panel** or **Firmware Update Device**

Follow displayed instructions thoroughly.  
See unit or device technical manuals.

### Update BrowserOne and modules

- make sure the PC is connected to Internet
- open BrowserOne
- in menu bar, select **Tools**
- select **Software Updates**
- in the window displayed, the available updates will be in red colour (both for BrowserOne and the modules): select updates to launch, then select **Perform Update**
- if the unit module is not on the components list, select **Add components**, select the component, then press OK

## 5 OPERATING MODE

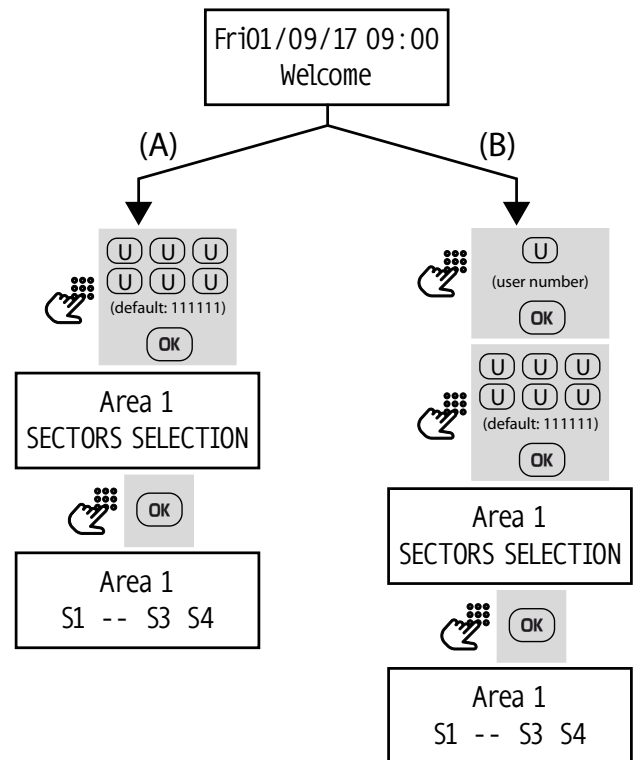
 We recommend consulting the control unit user manual for further details on arming and disarming operations.

### 5.1 System arming

The basic arming arms the sectors proposed to the user.

The proposed sectors are defined during system installation.

## Using a keypad



- A** "simplified codes" mode
- B** user number + user code mode

- if "simplified codes" mode is not active, enter the user number and then OK
- key in user code
- press OK

Keys of sectors proposed for arming for a specific user will blink in the currently operating area.

- press OK to start arming

If exit time has been set, it will be marked by beep sounds: leave the protected areas within the set time walking through the exit path set.

At the end of exit time, sectors proposed will be armed.

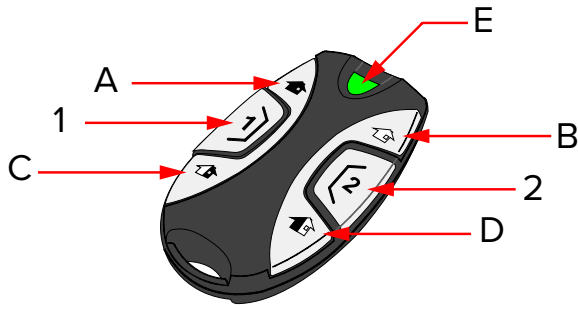
### Using a proximity key

- place the proximity key near the sensitive area (onto reader or keypad)
  - the pre-arming time will start (around 5 s): in this phase the user can modify sectors proposed for arming
- When the pre-arming 5-s time elapses, the exit time will start (if set).

Leave the protected areas within this time walking through the exit path set.

At the end, the unit status LED (on proximity key reader) or the sector keys (on keypad) will turn on.

## Using a remote control



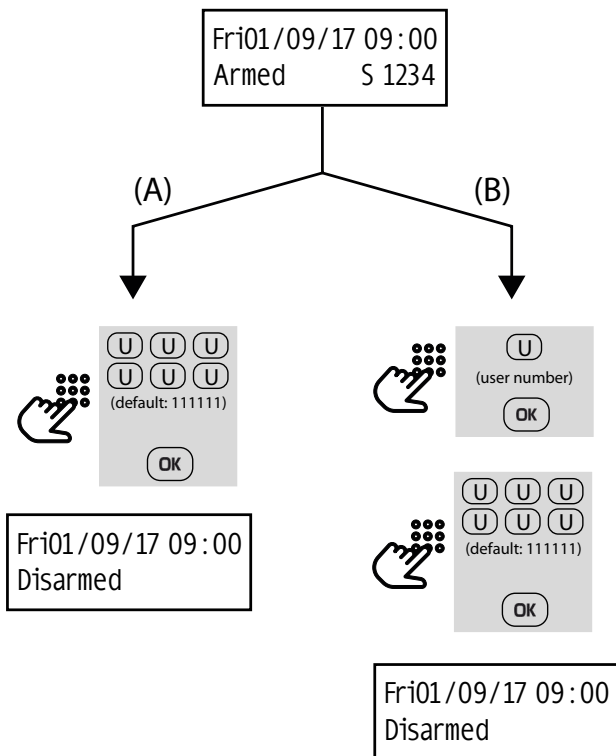
- A Key "TOTAL ARMING"
  - B Key "TOTAL DISARMING"
  - C Key "PARTIAL ARMING 1"
  - D Key "PARTIAL ARMING 2"
  - E Two-colour LED for data transmission status
- 
- 1 Key "OUTPUT 1 CONTROL"
  - 2 Key "OUTPUT 2 CONTROL"

To arm the system, press one of the following keys:

- "Total arming" (A): arms all sectors authorised for the user;
- "Partial arming 1" (C): arms sectors proposed for the user;
- "Partial arming 2" (D): arms sectors authorised but not the proposed ones.

## 5.2 Disarming

### Using a keypad



- A "simplified codes" mode
- B user number + user code mode

When system is armed:

- if "simplified codes" mode is not active, enter the user number and then OK
- key in user code
- press OK

System disarming will be marked by beeping sounds.  
Only sectors authorised for the specific user will be disarmed.

### Using a proximity key

- place the proximity key near the sensitive area (onto reader or keypad)
- wait a few seconds until the control unit status LED (on reader) or the sector keys (on keypad) will turn off

### Using a remote control

- press "total disarming" (B) key

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## EU DECLARATION OF CONFORMITY

The product complies with current European EMC and LVD directives.

The full text of the EU declaration of conformity is available at the following internet address: [www.elmospa.com](http://www.elmospa.com) – registration is quick and easy.



## GENERAL WARNINGS



This device has been designed, built and tested with the utmost care and attention, adopting test and inspection procedures in compliance with current legislation. Full compliance of the working specifications is only achieved in the event the device is used solely for its intended purpose, namely:

### Multi-functional hybrid control units for intrusion detection systems.

The device is not intended for any use other than the above and hence its correct functioning in such cases cannot be assured. Consequently, any use of the manual in your possession for any purpose other than those for which it was compiled - namely for the purpose of explaining the product's technical features and operating procedures - is strictly prohibited.

Production processes are closely monitored in order to prevent faults and malfunctions. However, the components adopted are subject to an extremely modest percentage of faults, which is nonetheless the case with any electronic or mechanical product.

Given the intended use of this item (protection of property and people), we invite you to adapt the level of protection offered by the system to suit the actual situation of risk (allowing for the possibility of impaired system operation due to faults or other problems), while reminding you that there are specific standards for the design and production of systems intended for this kind of application.

**We hereby advise you (the system's operator) to see that the system receives regular routine maintenance, at least in accordance with the provisions of current legislation, and also check on as regular a basis as the risk involved requires that the system in question is operating properly, with particular reference to the control unit, sensors, sounders, dialler(s) and any other device connected. You must let the installer know how well the system seems to be operating, based on the results of periodic checks, without delay.**

Work involved in the design, installation and maintenance of systems incorporating this product should be performed only by personnel with suitable skills and knowledge required to work safely so as to prevent any accidents. It is vital that systems be installed in accordance with current legislation. The internal parts of certain equipment are connected to the mains and therefore there is a risk of electrocution when maintenance work is performed inside without first disconnecting the primary and emergency power supplies. Certain products include batteries, rechargeable or otherwise, as an emergency backup power supply.

If connected incorrectly, they may cause damage to the product or property, and may endanger the operator (explosion and fire).

## INSTALLER WARNINGS



Comply strictly with current standards governing the installation of electrical systems and security systems, and with the manufacturer's directions given in the manuals supplied with the products.

Provide the user with full information on using the system installed and on its limitations, pointing out that there are different levels of security

performance that will need to suit the user's requirements within the constraints of the specific applicable standards. See that the user looks through the warnings given herein.

Work involved in the design, installation and maintenance of systems incorporating this product should be performed only by personnel with suitable skills and knowledge required to work safely so as to prevent any accidents. It is vital that systems be installed in accordance with current legislation. The internal parts of certain equipment are connected to the mains and therefore there is a risk of electrocution when maintenance work is performed inside without first disconnecting the primary and emergency power supplies. Certain products include batteries, rechargeable or otherwise, as an emergency backup power supply. If connected incorrectly, they may cause damage to the product or property, and may endanger the operator (explosion and fire).

## USER WARNINGS



Check the system's operation thoroughly at regular intervals, making sure the equipment can be armed and disarmed properly.

Make sure the system receives proper routine maintenance, employing the services of specialist personnel who meet the requirements prescribed by current regulations.

Ask your installer to check that the system suits changing operating conditions (e.g. changes in the extent of the areas to be protected, change in access methods, etc...)

## MAIN SAFETY RULES

The use of the device is forbidden for children and unassisted disabled individuals.

Do not touch the device when bare footed, or with wet body parts. Do not directly spray or throw water on the device.

Do not pull, remove or twist the electric cables protruding from the device even if the same is disconnected from the power source.

## DISPOSAL WARNINGS



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In accordance with Directive 2012/19/EU on waste electrical and electronic equipment (WEEE), please be advised that the EEE was placed on the market after 13 August 2005 and must be disposed of separately from normal household waste.

This product needs batteries for correct functioning. Exhausted batteries have to be delivered to dumping grounds authorised for battery collection. The materials used for this product are very harmful and polluting if dispersed in the environment.