

INSTALLATION AND CONNECTION OF THE EEN-CEN12 CENTRAL UNIT



GENERAL POINTS

This central unit (ref.: EEN-CEN12) enables management of all Intratone products such as the Audio and Visio call panels, proximity readers, RF receivers and coded keypads.

It also manages relay opening and closing, door-opening requests using the pushbutton, and sends email alerts via the Intratone servers.

A) CONNECTION TO THE INTRATONE SERVER

This central unit must be connected to the Intratone servers using one of the solutions below:

- The 3G Module (EEN-M3G).
- The Visio 2 call panel (EEN-PIVI3GV2).

The old modules (EEN-MGSM, EEN-MEDGE) and the GPRS module (EEN-MGPRS) can also be used with this central unit; wiring and operation are the same as for the 3G module.

B) OPTIONAL CENTRAL UNIT

A so-called "master" central unit (connected to the server) can also be connected to several optional central units via a bus. This enables you to have several central units connected to only one of the solutions presented above. However, central units connected using a bus do not accept Audio and Visio call panels.

C) EQUIPMENT CONFIGURATION

Intratone products are mainly configured using the "management website" tab on the www.intratone.com website. Nonetheless, some parameters must be changed on the central unit directly using the keypad and screen on the front of the central unit:

- Configuration of the pushbutton (NO or NC).
- Configuration of the door-opening time (from 0.2 to 99 seconds).
- Call panel volume (on a scale of 1 to 4).

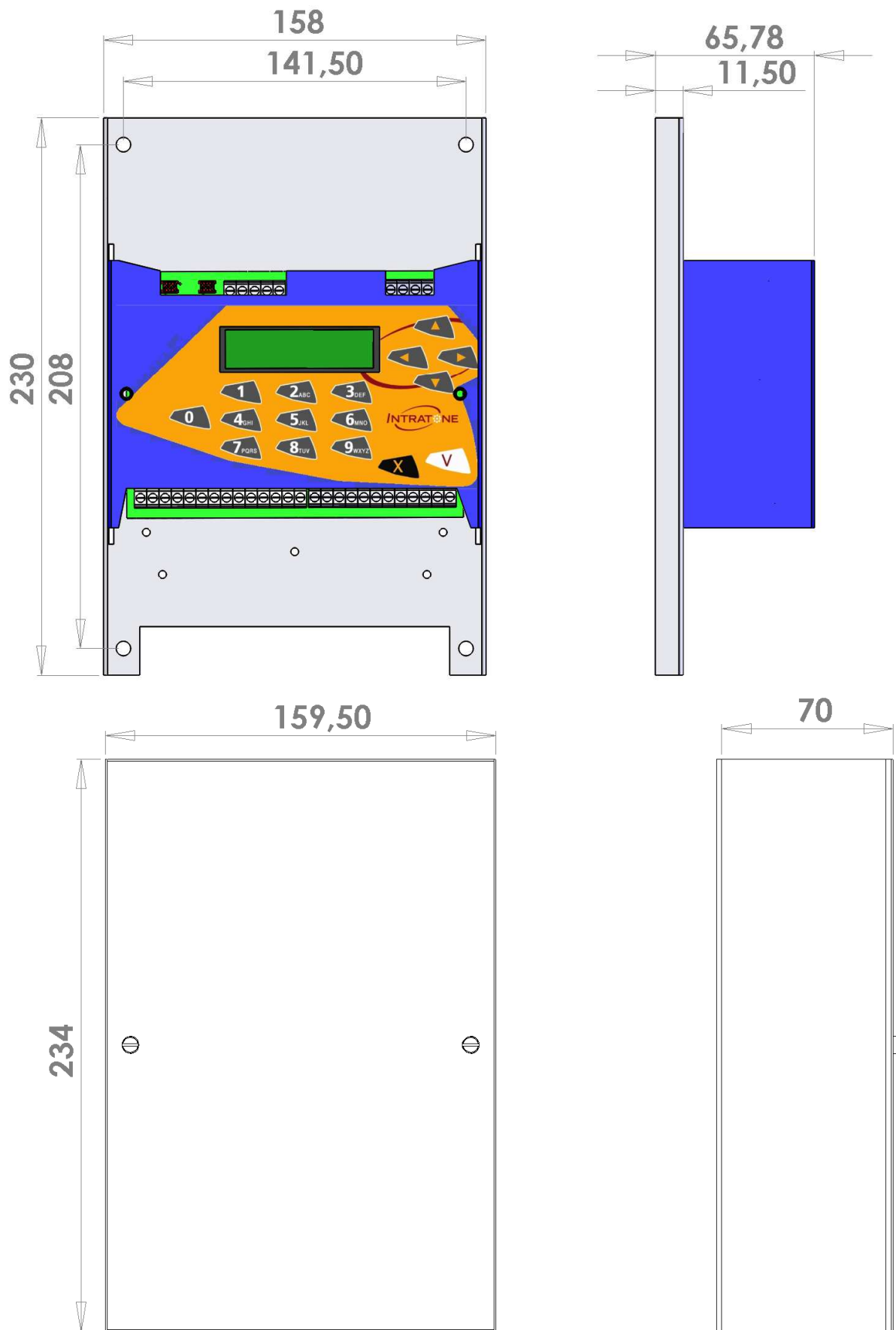
D) EXTENSION CARD

A central unit is fitted with 2 connectors enabling the connection of 2 Intratone products. You can add an extension card (EEN-CEX) in order to add two additional connectors to take other Intratone products.

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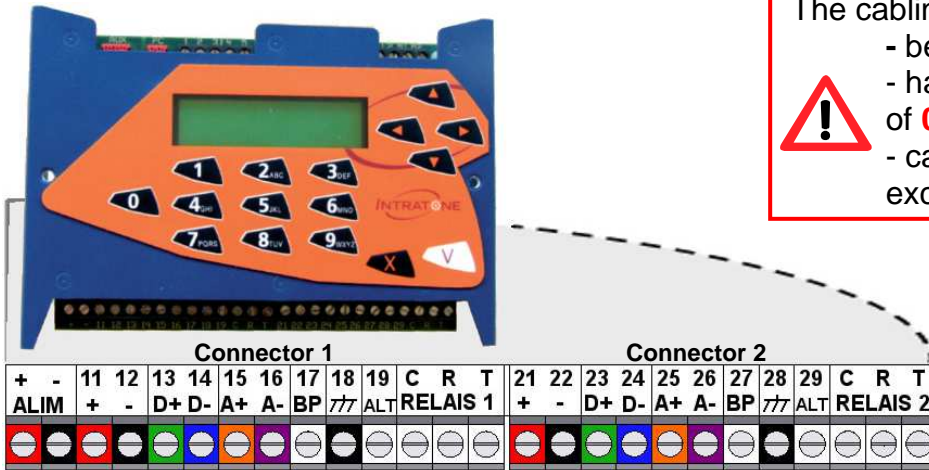
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DIMENSIONS AND FITTING



WIRING

A) LOWER TERMINAL BLOCK



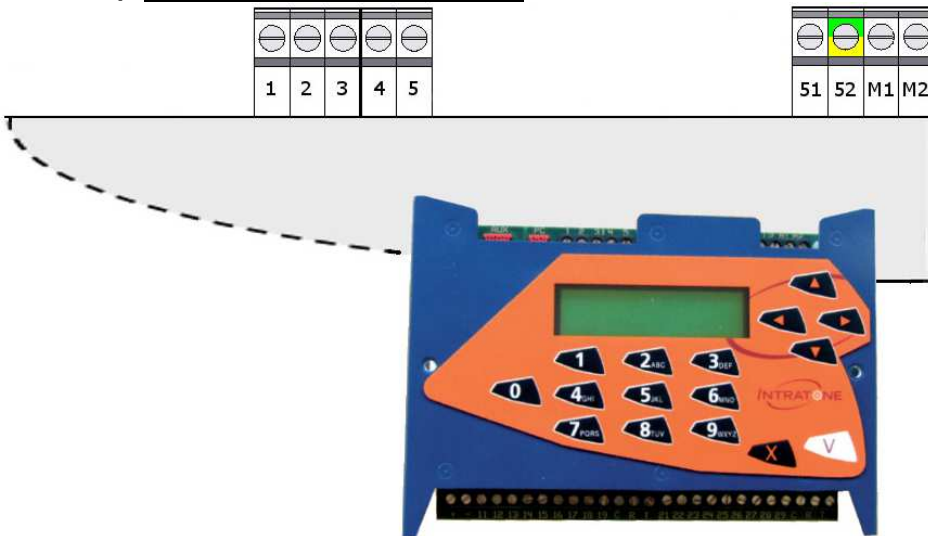
The cabling to be used must:

- be a **twisted pair**
- have a minimum diameter of **0.8mm²** per wire
- cable length must not exceed **100m**.

- POWER:** 12V/24V DC 2A power supply (3A if using an extension card)
- 11-12 (+/-):** Intratone equipment power supply (Call panel, 3G Block, HF Receiver, Proximity reader, Coded keypad, etc.).
- 13-14 (D+/D-):** Data bus used for communication with Intratone equipment (data only)
- 15-16 (A+/A-):** Audio bus used for transmitting sound when using the call panel (calls and voice synthesis).
- 17-18 (PB):** Input for the pushbutton triggering the relay in order to open the door from the inside.
- 18-19 (Alert):** Input for the alert used for connecting a dry contact in order to send an email alert (configurable in the "management website" tab on the www.intratone.com website).
- C-R-T(control):** NO (between C and T) and NC (between C and R) contact used for controlling door opening. Can carry 5A at 12V and 1A at 24V.

Connectors 2, 3 and 4 are identical to connector 1.

B) UPPER TERMINAL BLOCK



1-2-3: Data bus used for connecting optional central units together.

C) WIRING A DOOR FITTED WITH AN MAGNET LOCK

G: Power supply

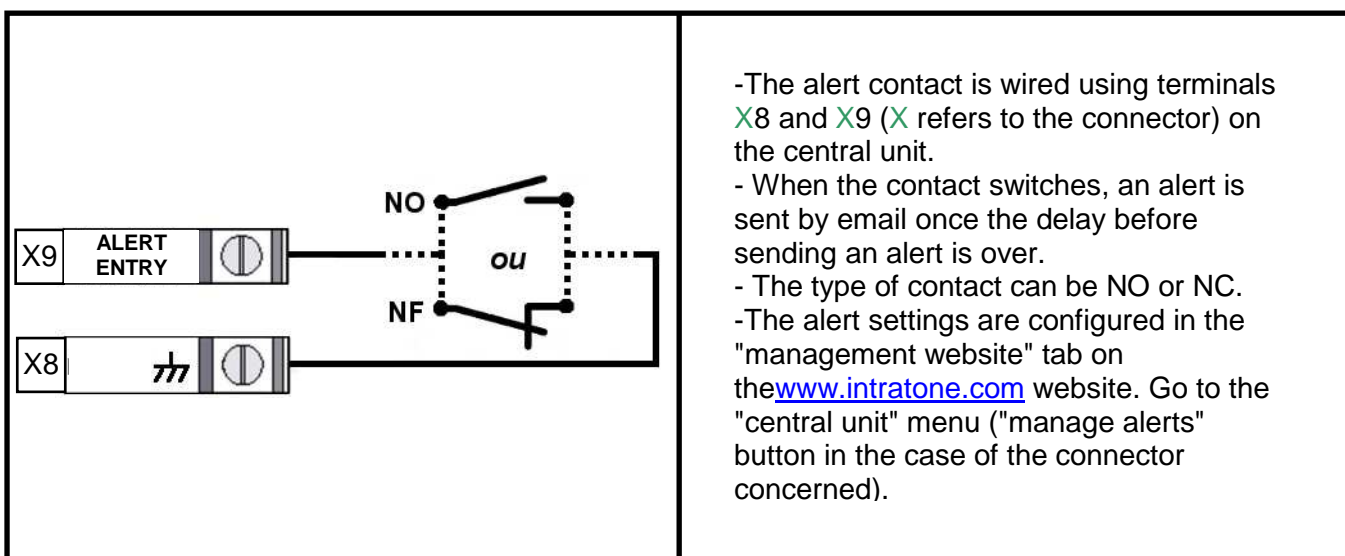
- The pushbutton is wired using terminals X7 and X8 (X refers to the connector) on the central unit.
- When the button is pushed, the relay on the central unit cuts power to the magnet lock for a time period configured on the central unit.
- If the central unit is not working, the NC contact button on the PB also cuts the power to the magnet lock.
- **The pushbutton must be set to NO in the central unit's menu in order for the following wiring to work (NO by default).**
- The type of pushbutton (NO or NC) is defined in the central unit configurations settings (see page 7)
- At rest, power is supplied to the magnet and it keeps the door locked,
- When the relay is activated by the central unit, the magnet's power supply is cut; the magnet lock opens the door.
- **The power supplied to the electromagnet must be less than 42 V AC or 60 V DC. If the power supply voltage exceeds these values, use an intermediate relay (of the correct capacity) to control the electric lock.**
- **Installation of a varistor (blue spot) is essential for the relay to work properly. This varistor is calibrated for 12v.**

D) WIRING A DOOR FITTED WITH AN ELECTRIC LOCK

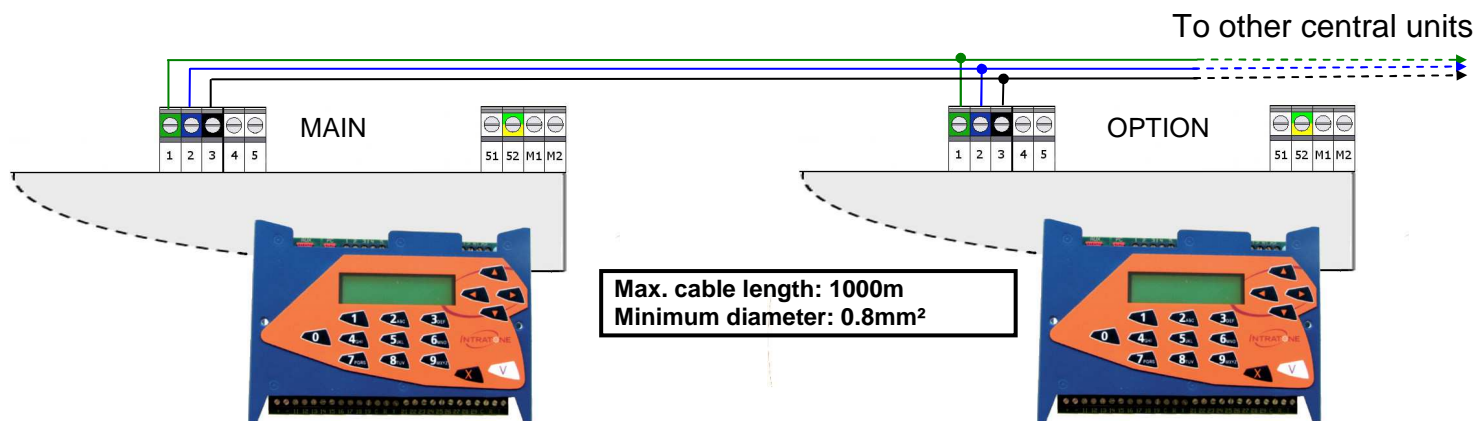
G: Power supply

- The pushbutton is wired using terminals X7 and X8 (X refers to the connector) on the central unit.
- When the button is pushed, the relay on the central unit cuts power to the lock for a time period configured on the central unit.
- If the central unit is not working, the NO contact button on the PB also supplies power to the lock (install a backup power supply for this purpose).
- **The pushbutton must be set to NF in the central unit's menu in order for the following wiring to work (NO by default).**
- The type of pushbutton (NO or NC) is defined in the central unit configurations settings (see page 7)
- At rest, the lock mechanism keeps the door locked,
- When the relay is activated by the central unit, power is applied and the lock opens the door.
- The power supplied to the electric lock mechanism must be less than 42 V AC or 60 V DC. **If the power supply voltage exceeds these values, use an intermediate relay (of the correct capacity) to control the electric lock.**
- **Installation of a varistor (blue spot) is essential for the relay to work properly. This varistor is calibrated for 12v.**

E) ALERT INPUT WIRING



F) CABLING OF OPTIONAL CENTRAL UNITS

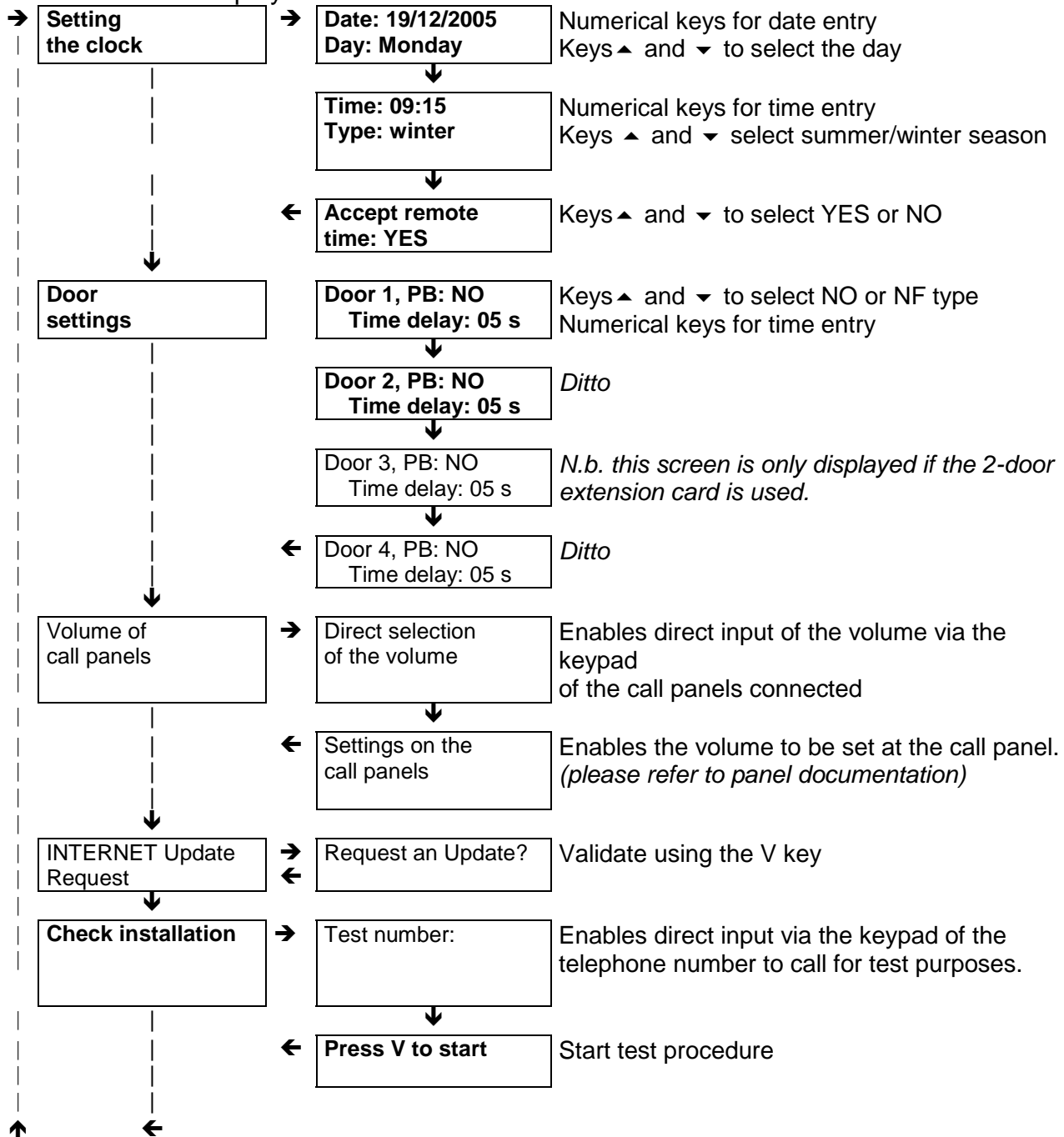


EQUIPMENT CONFIGURATION

A) CONFIGURATION OF CENTRAL UNIT IN THE FIELD

The central unit's configuration menu can be accessed by pressing one of the keys on the keypad. The password to be entered corresponds to the central unit's serial number (000XXXXX).

The menu is displayed as follows:



The arrows show the direction in which to move through the screens by using the 'next' key: ↓. The cancel key © enables you to exit programming mode.

The menus and input screens in bold are always visible whereas others depend on the items connected to the central unit (scrolling display panel, panel with keypad, HF receiver, etc.)

B) CONFIGURATION USING THE "MANAGEMENT WEBSITE" TAB ON THE WWW.INTRATONE.COM WEBSITE

-The EEN-CEN12 central unit must be configured beforehand in the "management website" tab on the www.intratone.com website.

To register the equipment, you will need:

- The central unit's serial number (000XXXXX)
- Your Intratone contract number and the product's telephone number enabling connection to the 3G network.

Also remember to note the position of each access point on the connectors; you will be asked for these during configuration on the website.

C) ADJUSTING THE CONTRAST

The screen contrast can be adjusted using the → and ← arrows. It is adjustable in steps from 1 to 9

D) SETTING CALL PANEL VOLUME LEVELS FROM THE CENTRAL UNIT

The volume level of the call panels can be adjusted via the central unit's configuration menu. You can set the volume directly on the central unit using the "direct input of volume" menu. It is adjustable in steps from 1 to 4

You can also adjust the volume directly on the call panel. The adjustments to be made are described in the call panel guide.

POST-INSTALLATION CHECK

Before leaving the installation, the following points should be checked:

A) ON THE CENTRAL UNIT

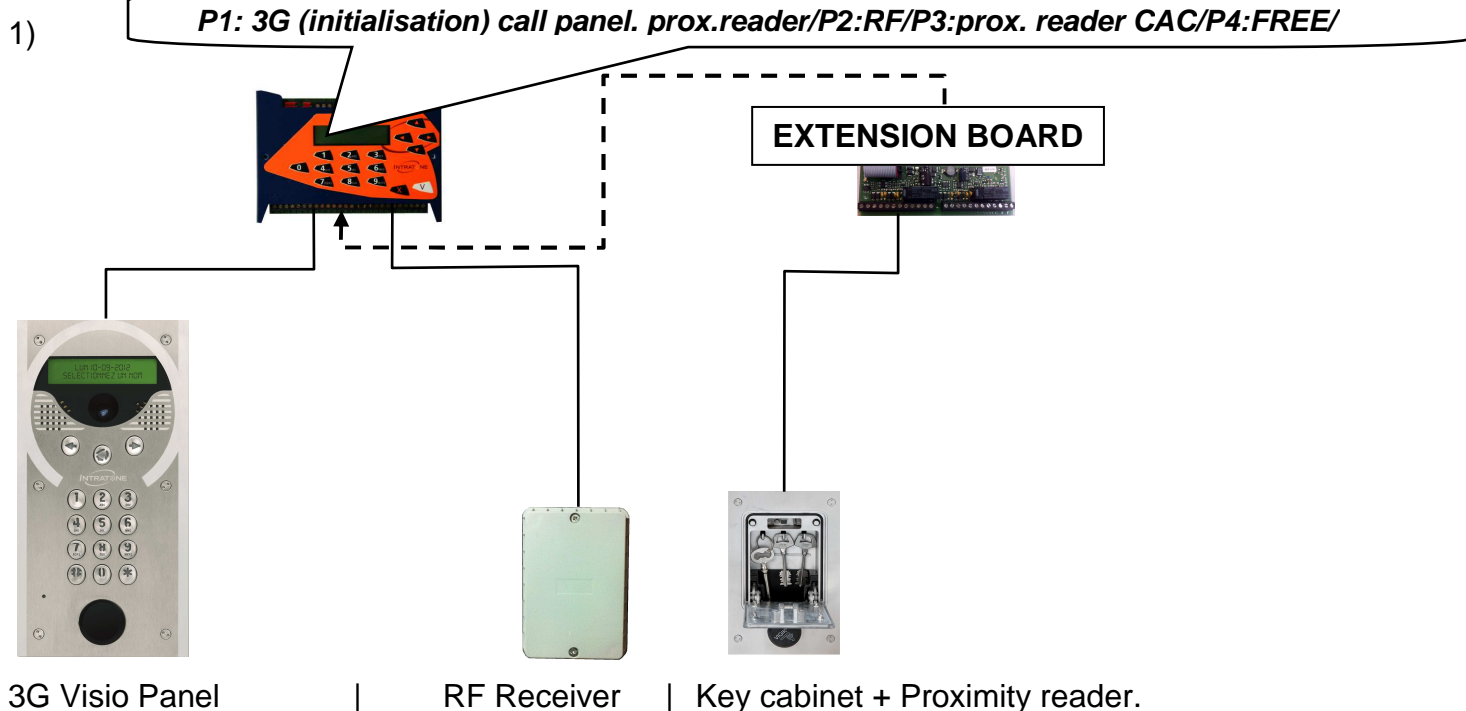
- On the screen of the central unit, the date and time are correct.

- When you bridge PB inputs X7 and X8 (X corresponds to the connector on the central unit), the relay opens the door.

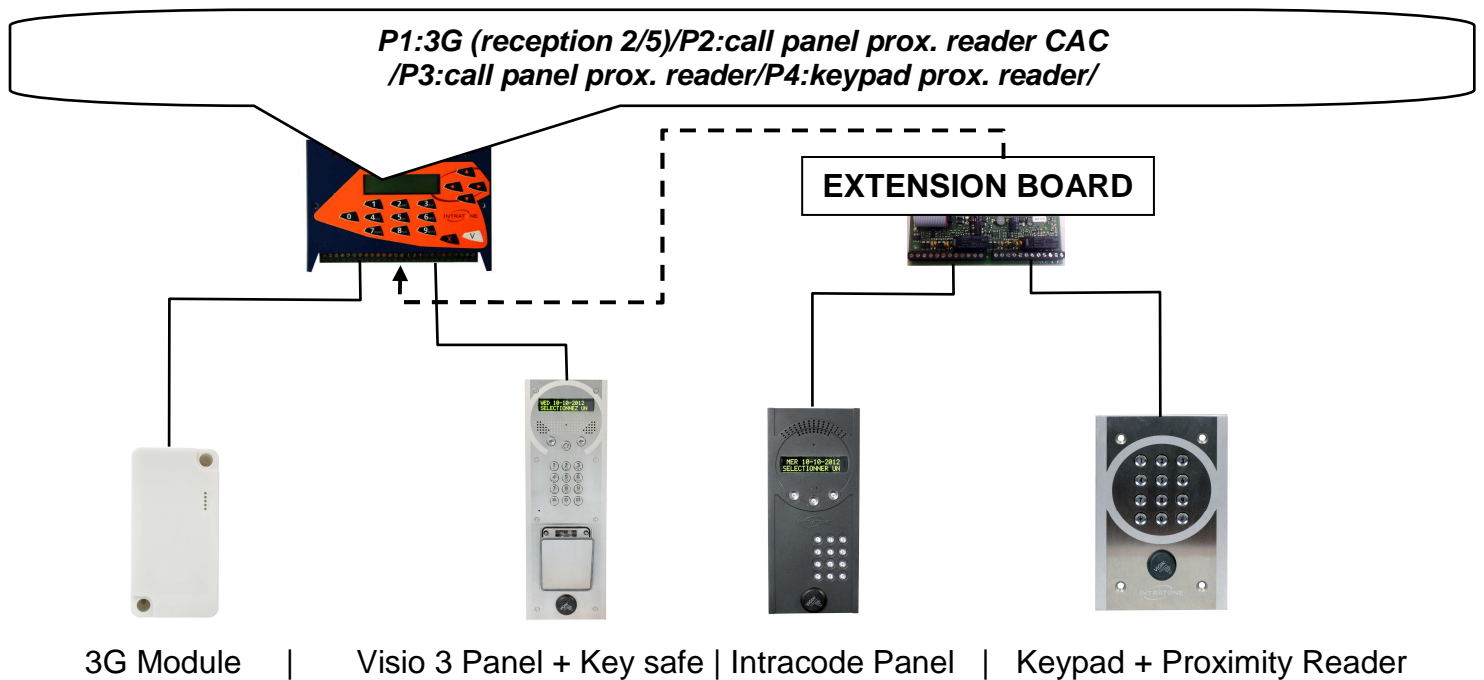
- On the second line of the central unit screen, you can see the various products connected to the central unit. Here is a list of abbreviations for the products:

MESSAGE	PRODUCT CONNECTED AND PRODUCT STATUS
3G (initialisation)	The 3G Visio panel or 3G module is connected and is in the initialisation phase.
GSM (reception X/5)	The 3G Visio panel or 3G module is connected and it is on the GSM network with a signal level of X/5.
3G (reception X/5)	The 3G Visio panel or 3G module is connected and it is on the 3G network with a signal level of X/5.
call panel	A telephone intercom panel is connected.
Keypad	A coded keypad is connected.
prox. reader	A proximity reader is connected or the proximity reader for a call panel is connected.
RF	An HF receiver is connected.
CAC	A key safe is connected.
Avail.	No product connected or a wiring problem (see page 10).

Examples:



2)



B) ON THE CONNECTED PRODUCT

You can check the operation of the equipment connected to the central unit using the "check installation" menu available in the central unit's configuration menu:

- On the central unit, press a key then enter the central unit's serial number
- Scroll through the central unit's menus (4x↓) until you reach "check the installation" then press V to go into the menu.
- Enter your telephone number (with the 00XX dialling code before the number) in order to test a call from the panel (this option is available only once the panel is connected to the central unit) then press V.
- Select the "Visio" option if enabled on your telephone (this option is available only if you are connected to the 3G network) then press V.
- Press V to start the procedure.

This procedure is active for 15 min. It enables:

- The door to be opened using any Mifare pass.
- The door to be opened using any Intratone remote control
- A call to the test number from the panel simply by pressing the "🔔" button. By default, the * key opens the door of the panel.

TROUBLESHOOTING

<i>What is the fault?</i>	<i>What is causing the fault?</i>	<i>How to fix the faultcard</i>
Central unit screen not turned on.	No power to the central unit or a short circuit in one of the power supplies.	- Check power to the + and – terminals and to the + and – terminals on each connector.
The second line of the central unit screen will not scroll.	Data bus problem.	Check the D+ et D- connections on each connector.
The connected equipment is not seen by the central unit in the scrolling message (e.g. "avail")	Data bus or equipment power supply problem	Check the D+ and D- connections on the relevant connector.
The door does not open but the proximity reader shows a green light.	The relay is incorrectly wired or the door control is faulty	- Check the relay's change of state using an ohm meter while bridging X7 and X8 (X corresponds to the connector on the central unit). - check the door control without the central unit (by bridging the relay).
No sound is emitted by the panel.	Problem with the panel's audio bus.	Check the A+ and A- connections on the relevant connector.
No sound is emitted by the panel during a call but the panel generates voice messages (call in progress, door open, etc.).	Problem with the 3G Module or 3G Visio panel audio bus.	Check the A+ and A- connections on the 3G Module or 3G Visio panel.
The optional central unit is not updated.	Problem with the optional central unit bus	Check the bus wiring, 1-2-3 (on the upper terminal block)

- To contact our technical support department:

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