INSTALLATION AND CONNECTION OF THE 03-0101-EN CENTRAL UNIT (EEN-CEN12G)

GENERAL POINTS

This central unit (ref.: 03-0101-EN (EEN-CEN12)) can be used to manage all Intratone products, including Audio and Visio call panels, proximity readers, RF receivers and coded keypads.

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

A) CONNECTION TO THE INTRATONE SERVER

It is essential that this central unit is connected to the Intratone servers using a 3G module (17-0101-EN).

Previous modules (EEN-MGSM, EEN-MEDGE), the GPRS module (17-0102-EN) and the Visio 2 panel (EEN-PIVI3GV2) may also work with this central unit; they are wired and operate in the same way as 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, the "optional" central units **do not accept Audio and Visio 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

Each central unit is equipped with 2 connectors. You can add an extension card (12-0109-EN) in order to add two other connecters.

CONTENTS

GENERAL POINTS ----------1

A) CONNECTION TO THE INTRATONE SERVER ---------- 1
B) OPTIONAL CENTRAL UNIT ---------- 1
C) EQUIPMENT CONFIGURATION ---------- 1
D) EXTENSION CARD ---------- 1

CONTENTS ----------2

DIMENSIONS AND FITTING ----------3

WIRING ----------4

A) LOWER TERMINAL BLOCK ---------- 4
B) UPPER TERMINAL BLOCK ---------- 4
C) WIRING A DOOR FITTED WITH A MAGNET LOCK ---------- 5
D) WIRING A DOOR FITTED WITH AN ELECTRIC LOCK ---------- 5
E) ALERT INPUT WIRING ---------- 6
F) CABLING OF OPTIONAL CENTRAL UNITS ---------- 6

EQUIPMENT CONFIGURATION ----------7

A) CONFIGURATION OF THE CENTRAL UNIT IN THE FIELD ---------- 7
B) CONFIGURATION ON THE WEBSITE WWW.INTRATONE.COM ---------- 8
C) ADJUSTING CONTRAST ---------- 8
D) SETTING CALL PANEL VOLUME LEVELS VIA THE CENTRAL UNIT ---------- 8
E) ANTI-PASSBACK ---------- 9
1. PRINCIPLE ---------- 9
2. THE “FREE EXIT” ANTI-PASSBACK ---------- 9
3. THE “DROP-OFF” ANTI-PASSBACK ---------- 9

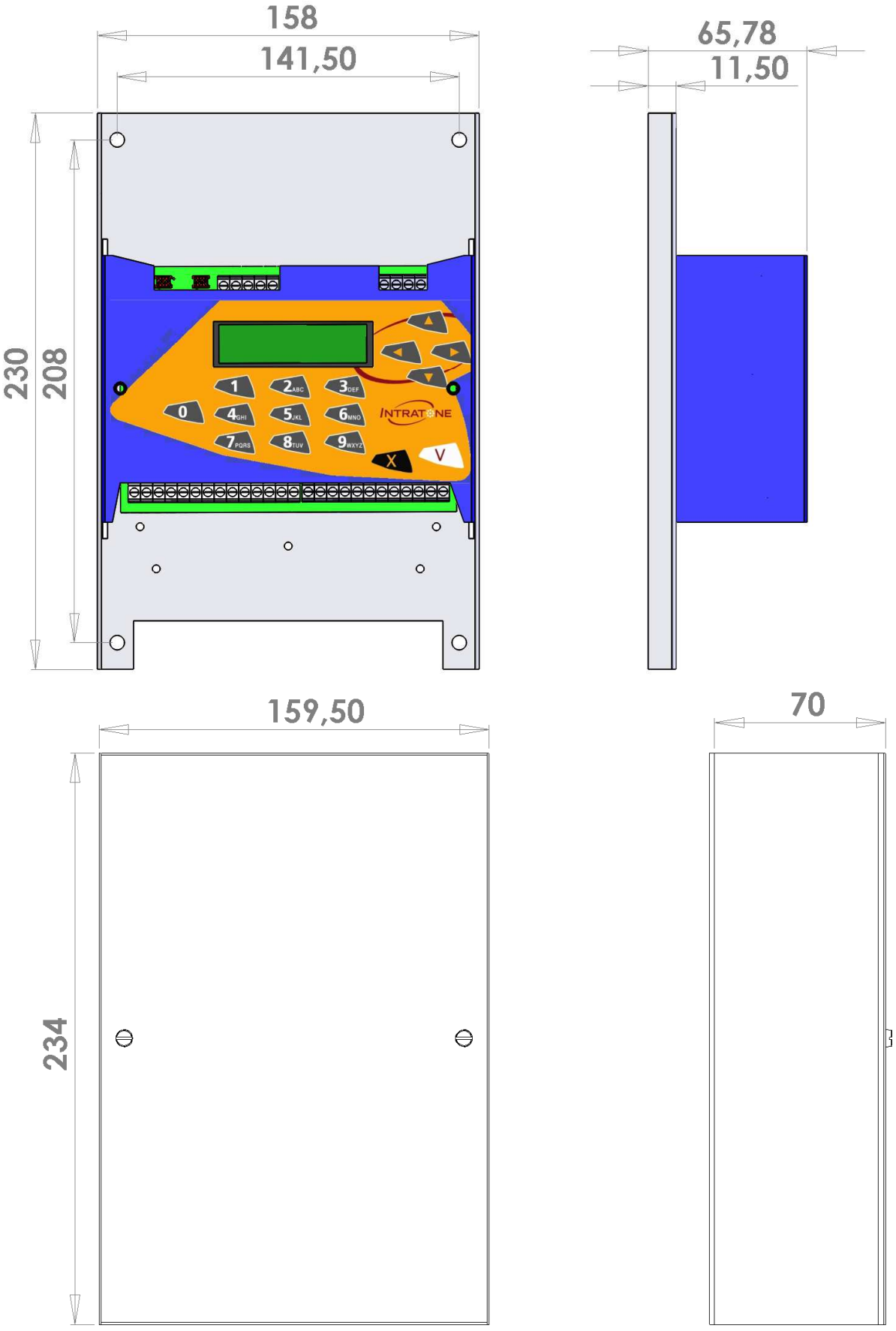
POST-INSTALLATION CHECK ---------- 10

A) CHECK THE INSTALLATION’S WIRING ---------- 10
B) INSTALLATION OPERATIONAL CHECK ---------- 11

TROUBLESHOOTING ---------- 12

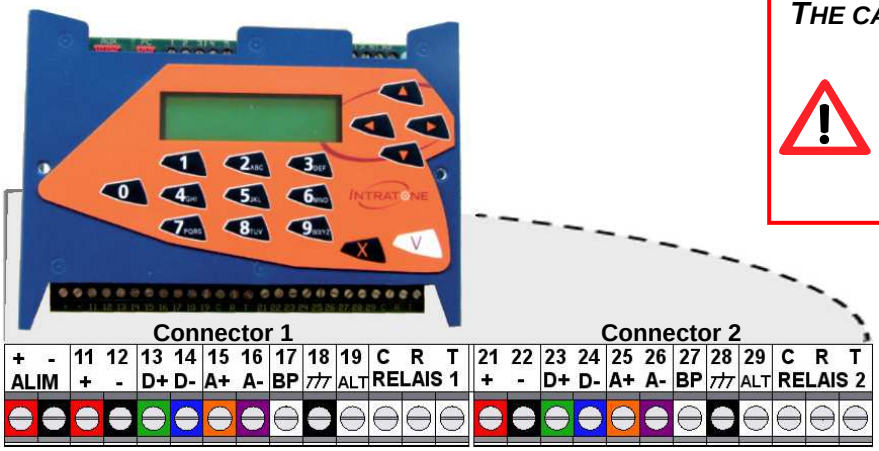
CERTIFICATE OF CONFORMITY ---------- 13

DIMENSIONS AND FITTING



WIRING

A) *LOWER TERMINAL BLOCK*



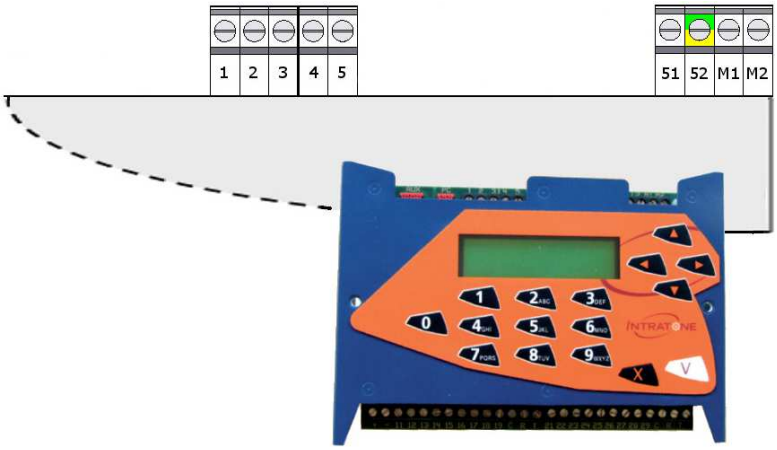
THE CABLING TO BE USED MUST:

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

POWER	**Power:** 12V/24V DC 2A power supply (3A if using an extension card)
X1- X2 (+/-)	Intratone equipment **power supply** (call panel, 3G module, RF receiver, proximity reader, coded keypad, etc.).
X3-X4 (D+/D-)	**Data bus** used for communication with Intratone equipment (data only)
X5-X6 (A+/A-)	**Audio bus** used for transmitting sound when using the call panel (calls and voice synthesis).
X7-X8 (PB)	**Pushbutton input** triggering the relay in order to open the door from the inside.
X8-X9 (Alert)	**Alert input** used for connecting a dry contact in order to send an alert by email (configurable on the site www.intratone.com).
C-R-T (Control)	**Contact** NO (between C and T) and NF (between C and R) used to control opening of the entrance. Can carry 5A at 12V and 1A at 24V.

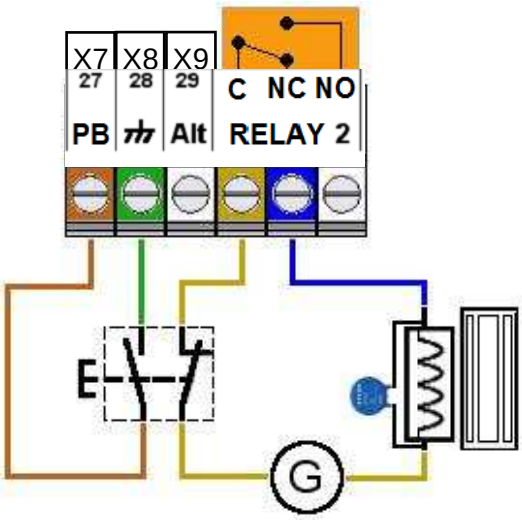
X corresponds to the central unit connector.

B) *UPPER TERMINAL BLOCK*



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

C) WIRING A DOOR FITTED WITH A MAGNET LOCK

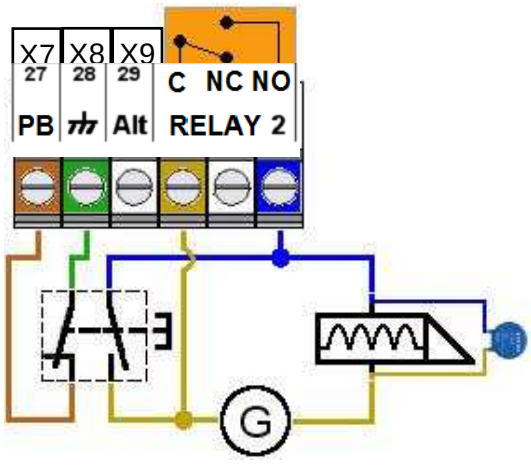


G: Power supply

-THE PUSHBUTTON IS WIRED USING TERMINALS X7 and X8 (X corresponds 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 configuration 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

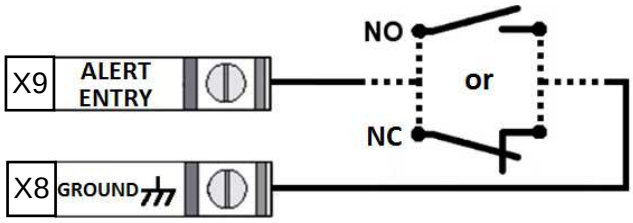


G: Power supply

-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 NC 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.

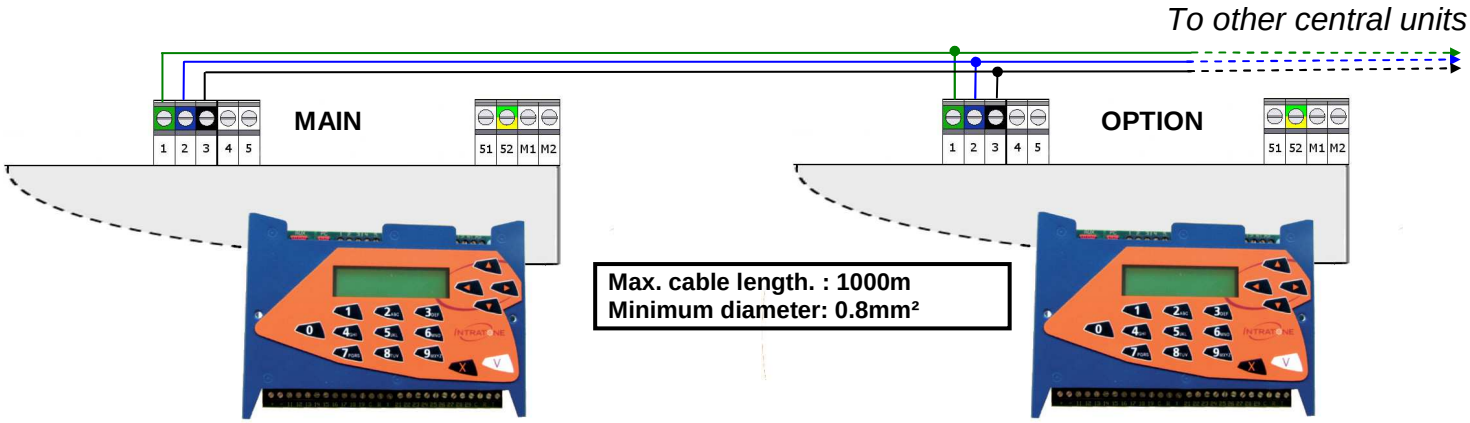
- **The power supplied to the electric lock mechanism must be less than 42 V AC or 60 V DC. If the power supply voltage exceeds these values, use an intermediate relay (of the correct capacity) to control the electric lock.**
- Installation of a varistor (blue spot) is essential for the relay to work properly. This varistor is calibrated for 12V.

E) *ALERT INPUT WIRING*



-The alert contact is wired using terminals X8 and X9 (X corresponds to the connector) on the central unit.
- When the contact switches, an alert is sent by email once the delay before sending an alert is over.
- The type of contact can be NO or NC.
- All alert parameters are configured on the site www.intratone.com via the "management site" tab in the "central unit" menu (in the box for the relevant connector).

F) *CABLING OF OPTIONAL CENTRAL UNITS*

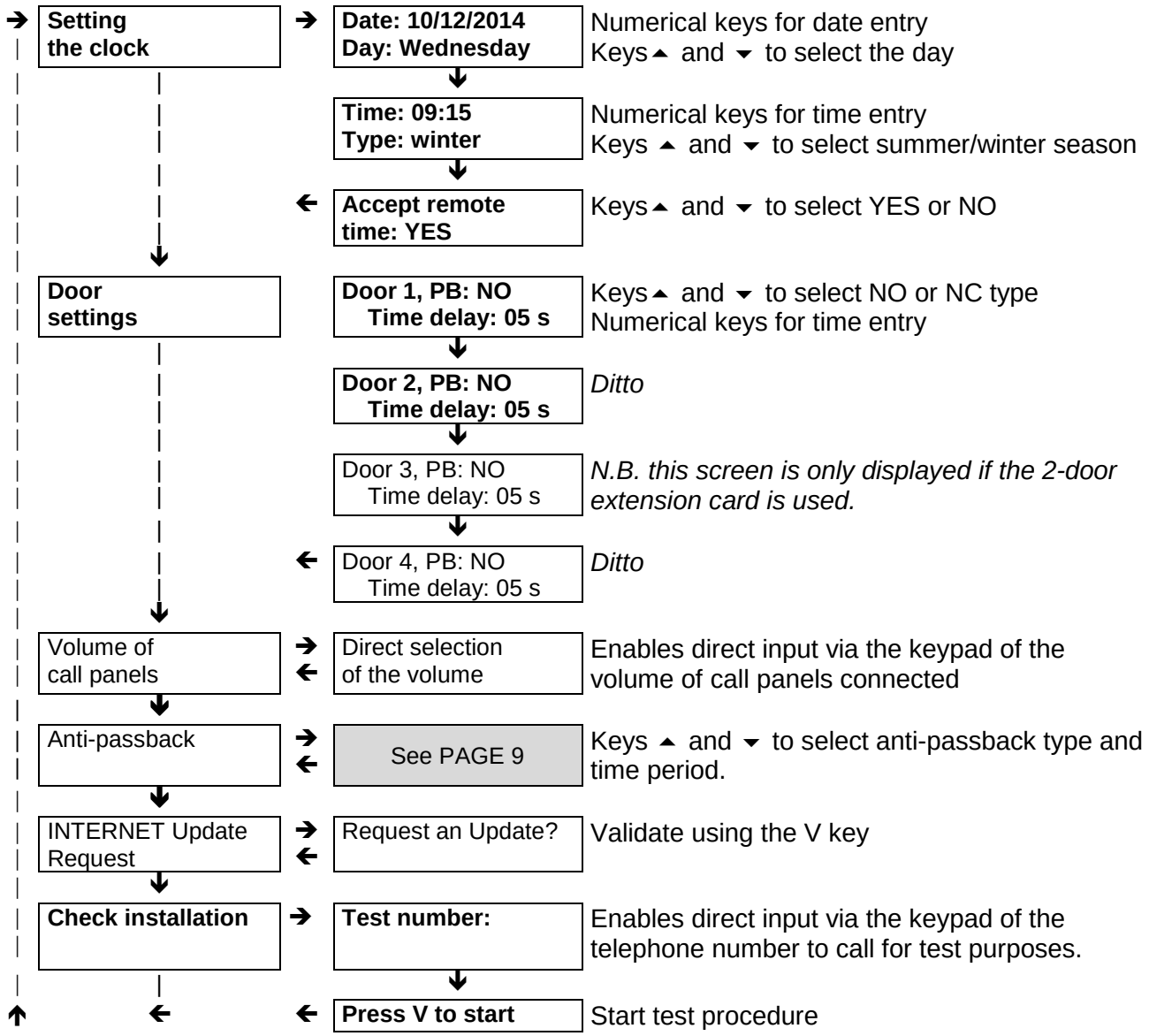


EQUIPMENT CONFIGURATION

A) CONFIGURATION OF THE 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 **X** 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, RF receiver, etc.)

B) CONFIGURATION ON THE WEBSITE WWW.INTRATONE.COM

The 03-0101-EN (EEN-CEN12G) central unit must be configured in advance on the site www.intratone.com under the "management site" tab before use.

To register this equipment, you will need the following details:

- **The central unit's serial number** (000XXXXX)
- **Your Intratone contact number**

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 CONTRAST

Screen contrast can be adjusted using the ➔and ➔arrows. It is adjustable in steps from 1 to 9.

D) SETTING CALL PANEL VOLUME LEVELS VIA 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 volume input" 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.

E) ANTI-PASSBACK

1. Principle

The 03-0101-EN (EEN-CEN12G) central unit allows you to install an anti-passback system in a car park.

The anti-passback system can be used to control access by residents to a closed area which has at least one entrance and one exit.

The anti-passback function therefore authorises residents to:
- Leave at any time
- Enter after having left.
- Re-enter once the anti-passback time period has elapsed

A minimum of 1 entrances/exits and a maximum of 3 entrances/exits can be configured per central unit. The anti-passback system can manage badges and remote controls.

You are **strongly advised** to install vehicle presence loops at entrances and exits.

2. The "free exit" anti-passback

In this configuration, the vehicle is always authorised to leave. In order to enter, the anti-passback time period must have elapsed or the vehicle must be considered as having left.

To configure it (cf. PAGE 7 to access the menu):

-Select the time period for the anti-passback (between 5 and 240 mins) or select "permanent" to authorise entrance only after an exit.

- Define which connector(s) are entrance(s)/exit(s).

3. The "drop and go" anti-passback

In this configuration, the vehicle is authorised to remain in the car park for a limited period. After this period, the badge/remote control will be considered suspended. This suspension can only be cancelled by reactivation via the website www.intratone.info

To configure it (cf. PAGE 7 to access the menu):

- Select the time authorised within the car park (between 5 and 240 mins).
- Define which connector(s) are entrance(s)/exit(s).

INFORMATION

- The remote controls must have the anti-passback option activated via the management site at www.intratone.com in the "management site" tab, otherwise no restriction will be applied.

- The "anti-passback" function is available on central units with a serial number above 00020000 and connected to a GSM/3G module.

- Under "drop n' go" configuration, the "permanent" value replaces the "drop n' go" concept.

POST-INSTALLATION CHECK

Before quitting the installation, the following three points should be checked:

A) CHECK THE INSTALLATION'S WIRING

- The central unit's display indicates the correct date/time on the first line.

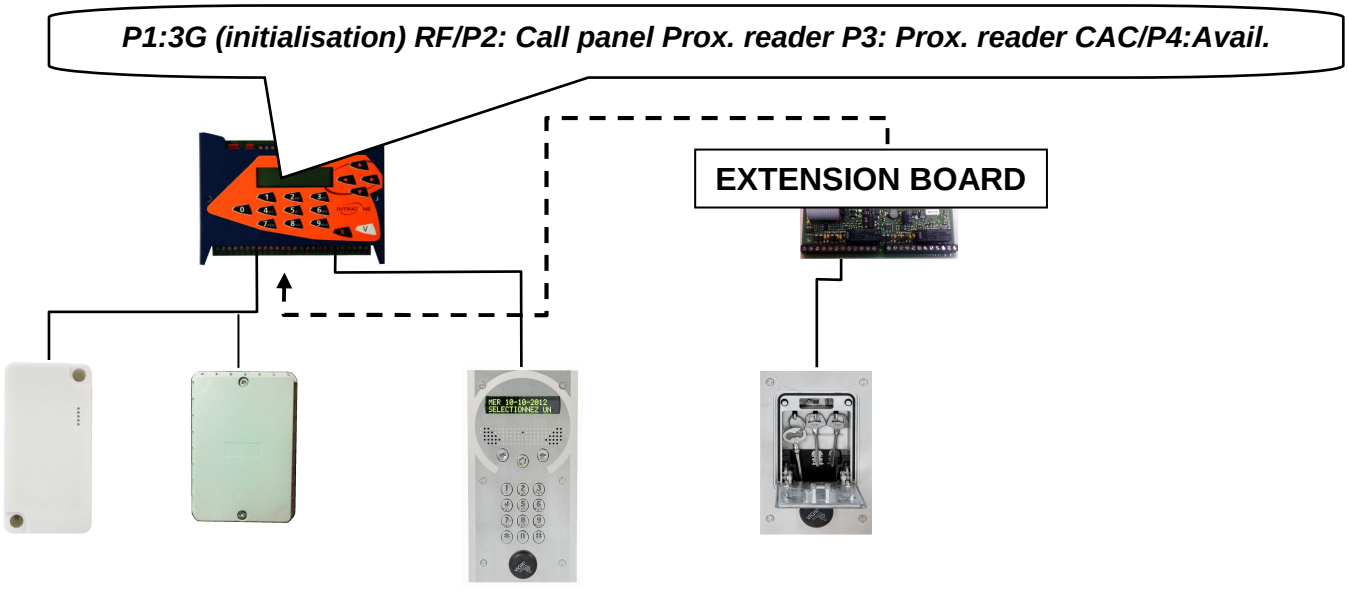
- The relay correctly opens the door when a bridge is formed between PB input X7 and X8 (X corresponds to the central unit's connector).

- The central unit's display shows a list of the devices connected to the second line. Each peripheral device appears in an abbreviated manner, as follows:

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 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 is on the 3G network with a signal level of X/5.
Call Panel	An intercom call 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 RF receiver is connected.
CAC	A key safe is connected.
Avail.	No product connected or wiring problem (see page 12).

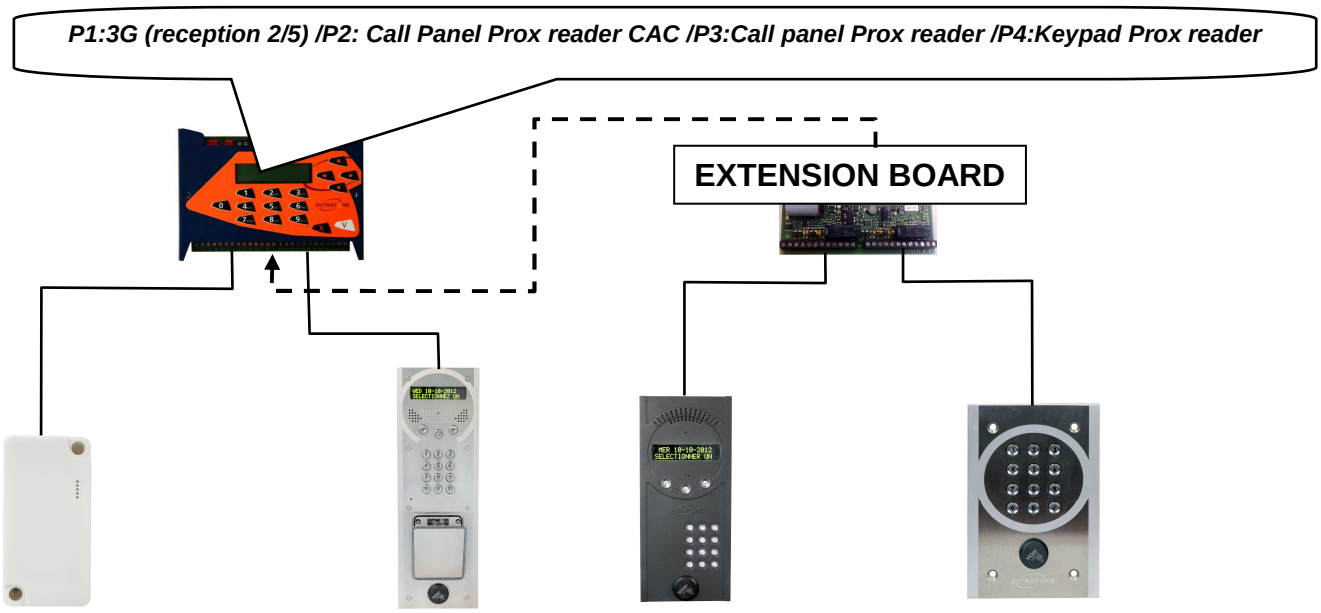
Examples:

1) ***P1:3G (initialisation) RF/P2: Call panel Prox. reader P3: Prox. reader CAC/P4:Avail.***



3G module + RD Receiver | Visio V3 Panel | Key safe + Prox. Reader.

2)



3G Module | Visio 3 Panel + Key safe | Intracode Panel | Coded keypad + Proximity Reader

B) INSTALLATION OPERATIONAL CHECK

You can check the operation of the equipment connected to the central unit using the "check installation" menu available from 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 enter the menu.

- Enter your telephone number to test calling from a panel (this option is only available when a call 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 mins. It enables:

- The door to be opened using any Mifare badge.

- The door to be opened using any Intratone remote control.

- Calling the test number from the panel simply by pressing the “🔔” button. By default, the * key opens the door of the panel.

TROUBLESHOOTING

What is the fault?	***What is causing the fault?***	***How to fix the fault***
Central unit screen not 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 (PX: 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 calls 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 does not update.	Problem with the optional central unit bus	Check the 1-2-3 bus wiring, (on the upper terminal block)

☎ Contact our technical services +44 (0)2070 926 613 ☎