

FITTING AND CONNECTION OF CENTRAL UNIT EEN-CIC12



GENERAL

This central unit (ref. EEN-CIC12) enables you to control Intratone products such as Audio and Visio intercom panels, proximity readers, RF receivers and coded keypads.

It is also used to control the activation of relays, door opening requests by means of a pushbutton, and the sending of e-mail alerts via the Intratone servers.

A) CONNECTION TO THE INTRATONE SERVER

This central unit must be connected to the Intratone servers by means of one of the following:

- The GPRS module (EEN-MGPRS).
- The 3G module (EEN-M3G).
- The Visio 2 panel (EEN-PIVI3GV2).

B) RELAY CARD

Up to 4 relay cards (EEN-CR) can be connected to this central unit via the data bus; these cards allow multiple doors to be controlled using just one of the connection solutions listed above. However, relay cards will **not connect to any other Intratone product** – they are simply used to control another door using a reader, keypad, mobile phone etc.

C) HARDWARE CONFIGURATION

Intratone products are mainly configured from the “management web site” tab on the www.intratone.com website. However, some settings need to be adjusted on site using the control panel keypad and screen, or using the programming terminal (EEN-TP):

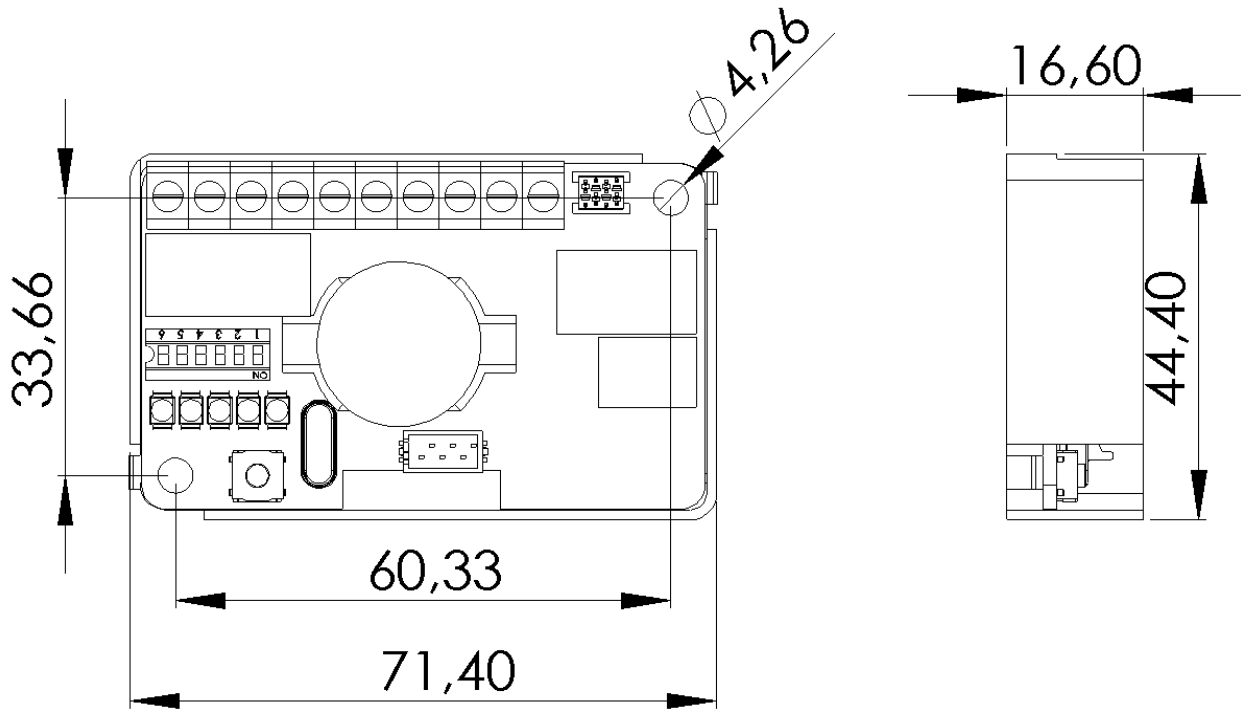
- Pushbutton settings (NO or NC).
- Setting the door opening time (from 0.2 to 99 seconds).
- Panel volume level (levels 1 to 4).

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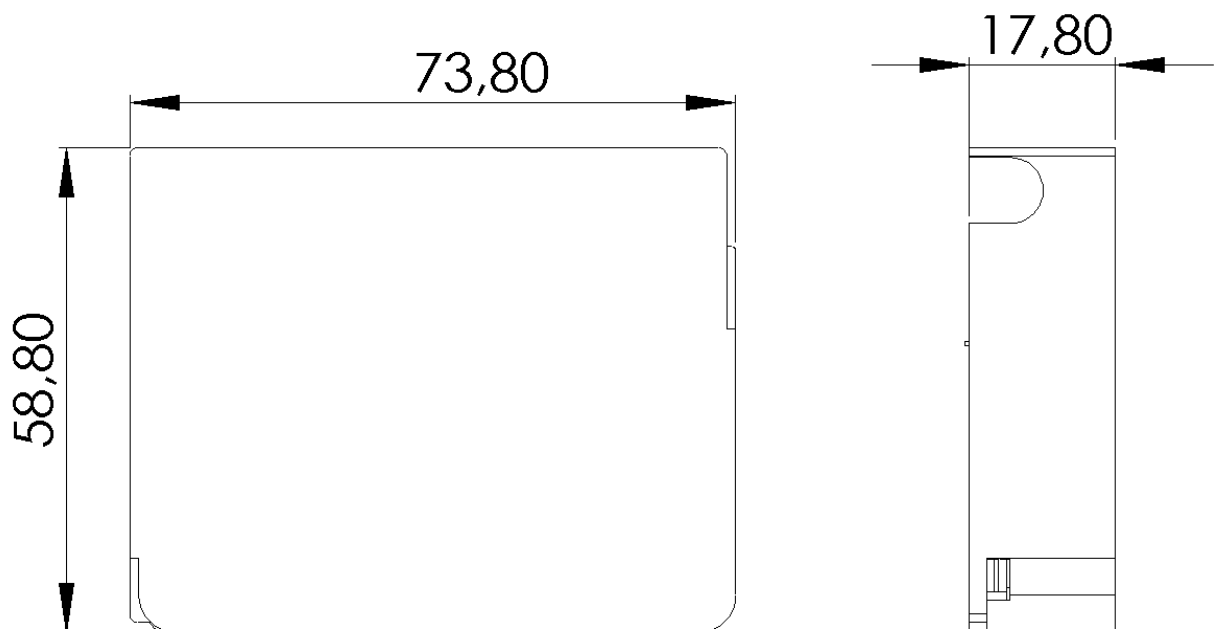
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SIZES AND FITTING

without cover

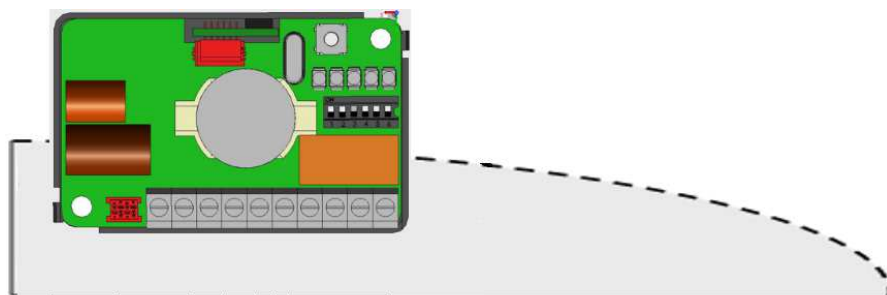


with cover



CABLING

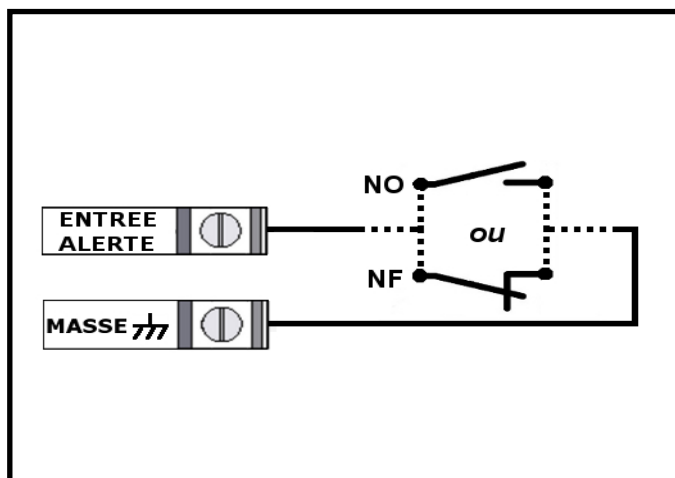
A) TERMINAL FROM BELOW



+	-	D+	D-	BP	Alt	777	C	R	T

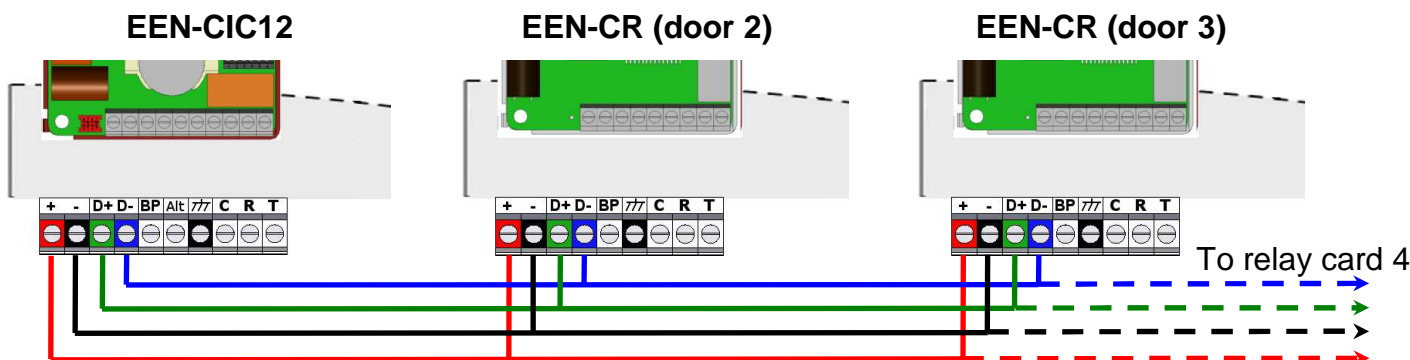
- +/-:** Power supply to the central unit and Intratone equipment (Panel, GPRS or 3G unit, RF receiver, Proximity reader, Coded keypad etc.).
- D+/D-:** Data bus for communication with Intratone equipment (data only).
- PB/Earth:** Pushbutton input to operate relay and open door from inside.
- Alert/Earth:** Alert input to connect a voltage free contact and send an alert by e-mail (can be configured on the Intratone.info website).
- C-R-T (command):** NO contact (between C and T) and NC (between C and R) to control access opening. Supply can be 5A at 12V or 1A at 24V.

B) ALERT INPUT CABLING



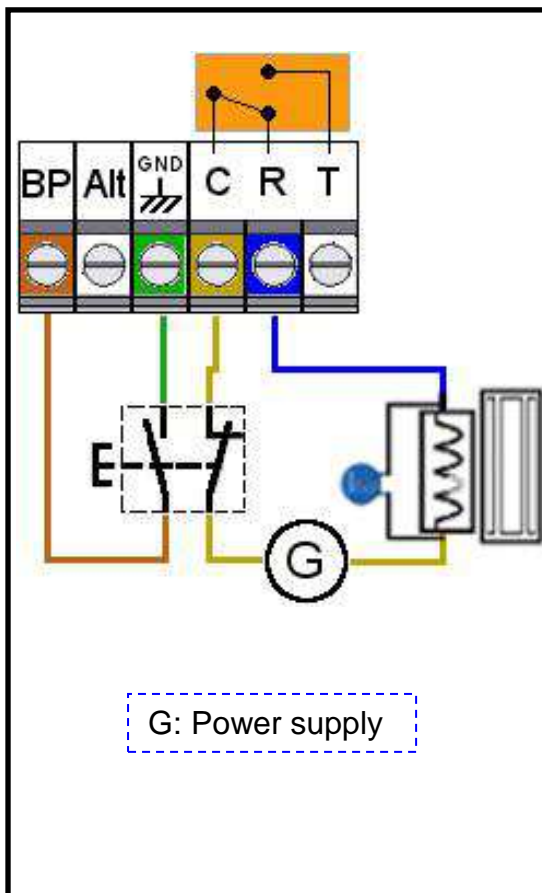
- The alert switch is connected between the Alt and GND terminals on the central unit.
- When the switch operates, an e-mail alert is sent once the time before alert sending has been reached.
- The switch type can be NO or NC.
- All the alert settings can be configured on the www.intratone.com website from the "management web site" tab. In the "central unit" menu ("manage alerts" button in the box of the connector in question).

C) RELAY CARD CABLING



⚠ WARNING! The address of each relay card must be set using the switches (cf. doc. EEN-CR)

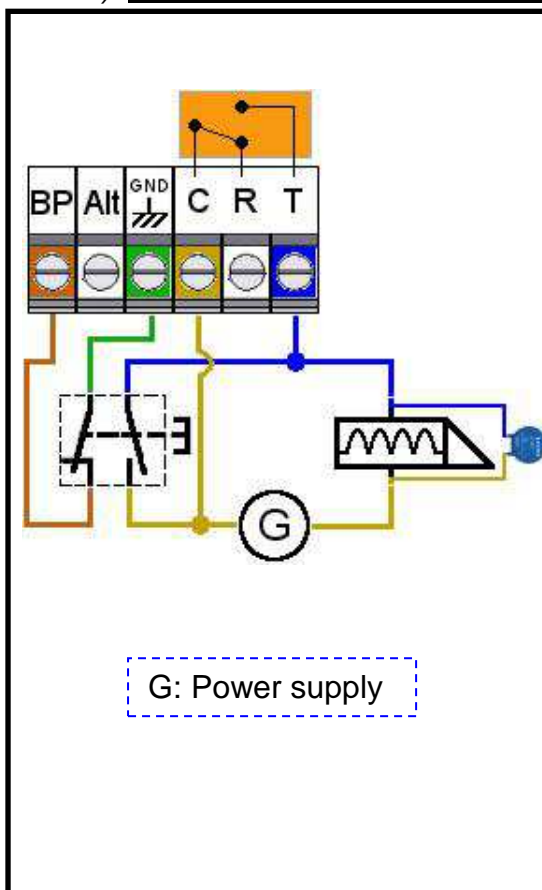
D) CABLING FOR DOOR FITTED WITH MAGNET LOCK



- The pushbutton is wired between the PB and GND terminals on the central unit.
- When the button is pressed, the central unit relay cuts the supply to the magnet lock for the period programmed into the central unit.
- If the central unit is out of service, the PB's NC contact button also cuts the supply to the magnet lock.
- **The pushbutton must be set to NO via the central unit menu in order for the following cabling to work (NO by default).**
- The pushbutton type (NO or NC) is defined within the central unit parameters (cf. page 6)
- At rest, the magnet lock (energised) keeps the door closed,
- When the relay is activated by the central unit, the supply to the magnet lock is cut; the magnet lock releases the door.

- **The electric vacuum lock supply voltage must be less than 42 V AC or 60 V DC. If the supply voltage is higher than these values, then an intermediate relay (of the correct rating) must be used to control the electronic lock.**
- **The fitting of a varistor (blue chip) is required for the correct operation of the relay. That varistor is calibrated for a voltage of 12 V.**

E) CABLING FOR DOOR FITTED WITH ELECTRIC STRIKER PLATE



- The pushbutton is wired between the PB and GND terminals on the central unit.
- When the button is pressed, the central unit powers the electric striker for the period programmed into the central unit.
- If the central unit is out of service, the PB's NO contact button will also power the striker (a failsafe power supply needs to be provided)
- **The pushbutton must be set to NC via the central unit menu in order for the following cabling to work (NO by default).**
- The pushbutton type (NO or NC) is defined within the central unit parameters (cf. page 6)
- At rest, the striker keeps the door locked,
- When the relay is activated by the central unit, the current flows and the striker releases the door.

- **The electric striker supply voltage must be less than 42 V AC or 60 V DC. If the supply voltage is higher than these values, then an intermediate relay (of the correct rating) must be used to control the electronic lock.**
- **The fitting of a varistor (blue chip) is required for the correct operation of the relay. That varistor is calibrated for a voltage of 12 V.**

HARDWARE CONFIGURATION

A) CONFIGURATION ON THE PANEL

The central unit's configuration menu can be accessed by pressing the “🔔” button for 10 sec. The password required will match the central unit's serial number (7XXXXXX3).

Use the “🔔 🔔 🔔” buttons to navigate around the menu:

- The 🔔 button enables you to enter a menu and confirm a setting.
- The 🔔 button enables you to navigate around the main menu and change a setting.
- The 🔔 button enables you to exit the menus and programming mode.

5 menus can be accessed from the main menu:

1) Clock setting:

From this menu, you can adjust the time, day and date, and also change between summer and winter mode:

- Set the time and date using the keypad on the panel.
- Set the day and summer/winter mode using the arrow 🔔.

2) Door settings:



This menu can only be accessed if switches 4, 5 and 6 on the central unit are set to OFF.

From this menu, you can select the pushbutton type and adjust the door opening time. By default, the door settings are configured using the switches on the central unit. They must therefore be moved to the “programming” position to access this menu:

- The pushbutton type is configured using the arrow 🔔.
- The opening time is configured using the keypad on the panel.

3) Panel volume setting:

From this menu, you can adjust panel volume levels. Set the volume level (a number from 1 to 4) using the keypad on the panel. (A sample tone will be generated to help you choose the setting.)

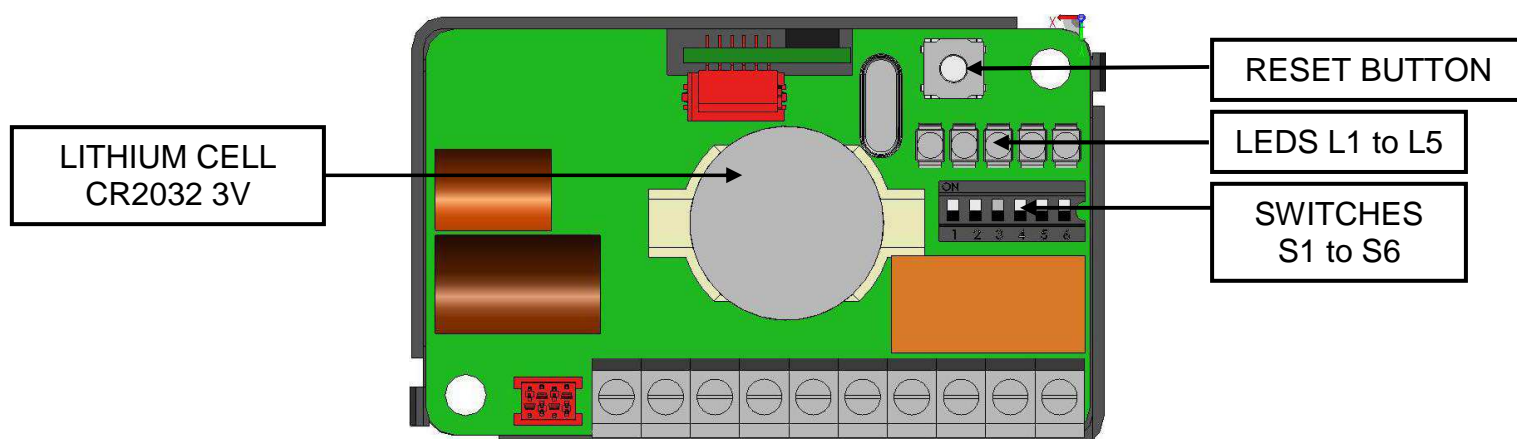
4) Internet update request:

From this menu you can launch an update directly from the central unit itself. Of course the central unit needs to be connected and registered on the GSM/3G network, and it must require an update from the website.

5) Installation checking:

From this menu you can check that the installation is operating correctly (cf. page 9).

B) CONFIGURATION ON THE CENTRAL UNIT



VIGIK	S1	ON	“Activated”	OFF	“Deactivated”		
* SECURITY	S2	ON	“Activated”	OFF	“Deactivated”		
NOT USED	S3						
TIME DELAY	S4	ON	05 sec	ON	10 sec	OFF	20 sec
	S5	ON		OFF			
PB TYPE	S6	ON	“Normally Open”	OFF	“Normally Closed”		
MODE CONFIGURATION PANEL / HTTP	S3	OFF	Setting these 3 switches to OFF enables the time delay to be set, along with the PB type, via the panel or programming terminal.				
	S4	OFF					
	S5	OFF					

* Door security:

For improved door security, connect the striker plate or magnet lock to relays C R and T on the central unit and set **switch n°2 on the central unit to ON**.



- Pressing the pushbutton on the panel will allow that relay to be opened, **BUT NOT** the central unit relay as well.
- Pressing the pushbutton on the central unit will allow the relays on both the central unit and the panel to be opened.

C) CONFIGURATION VIA THE INTRATONE.COM WEBSITE FROM THE “MANAGEMENT WEB SITE” TAB

The EEN-CIC12 central unit must previously have been configured on the www.intratone.com website from the “management web site” tab before use.

In order to register the equipment you will need the central unit’s serial number (7XXXXXX3). You will also be asked to provide your Intratone contract number.

Also remember to make a note of the panel or GSM/3G unit telephone number if you have a fleet contract.

POST-FITTING CHECKS

Before leaving the site, you will need to check the following:

A) CENTRAL UNIT LEDS


BLINK RATE	L1	L2	L3	L4	L5
SLOW	Reader ☺	Panel ☺	Central unit in service	GSM ☺	☒
LED OFF	Now power to central unit	Panel ☹	Central unit in ex. works condition	GSM ☹	☒
FAST	Reader ☹	☒	Back up problem	☒	☒



☹ : Check cabling: central unit cannot “see” the peripheral.


☺ : Cabling OK: central unit can “see” the peripheral.


B) COMMUNICATION CHECKS

You can check the operation of the equipment connected to the central unit using the “installation checking” menu found under the central unit’s configuration menu:

- Hold the «» key of the panel during 10 sec. The password to enter is the serial number of the central unit (7XXXXXX3).

- Scroll through the central unit menus (4x) until you get to “installation checking”, then press  to enter the menu.

- Enter your telephone number to check that calls can be made from the panel, then press .

- If your telephone allows it, choose the “Visio” option (only available if you are connected to the 3G network), then press .

- Press  to start the process. The * key will open the panel door by default.

C) OPENING COMMAND CHECKING

In order to check that your door is operating correctly, bridge the PB and Earth terminals (with the PB set to NO) and check that the relay opens the door correctly.

Before its 1st update, the central unit will open for all Mifare badges. You can therefore check that the door will open using an unprogrammed badge.

Check that each of the central unit terminals is tightened securely to avoid any interference during data transfer.

It is important that all cables are connected via a gooseneck to the central unit in order to prevent any water getting into the central unit connectors.

TROUBLESHOOTING

<i>What is the fault?</i>	<i>What has caused the fault?</i>	<i>How can the fault be rectified?</i>
LED 1 is off.	There is no power to the central unit.	- Check the power supply at the + and – terminals.
LED 1 blinks rapidly.	Problem with the data bus or the power supply to the proximity reader or clock.	- Check the +, -, D+ and D- connections on the central unit and reader. - Check the time on the central unit.
The door does not open, but the proximity reader shows green.	There is a problem with the relay cabling or the door control is out of service.	- Check the relay's change of state between C and T using an ohmmeter and bridging the PB and earth terminals. - Check the door can be controlled without the central unit (use wires to simulate the action of the relay).
LED 2 is off.	The central unit cannot "see" the panel.	Check the +, -, D+ and D- connections on the central unit and panel.
LED 4 is off	The central unit cannot "see" the GSM or 3G module	Check the +, -, D+ and D- connections on the central unit and GSM or 3G module.
The door stays open	- The PB type has been set incorrectly - A free access time period has been set via the management web site	- Check switch 6 or the central unit parameters (if switches 4, 5 and 6 are set to OFF) - Check whether an access time period has been set on the management web site
LED 3 blinks rapidly	- There is a back up problem.	Check that the back up is connected properly.

To contact our technical department:

☎ France: (+33)251 655 529

☎ UK: (+44)207 092 6613