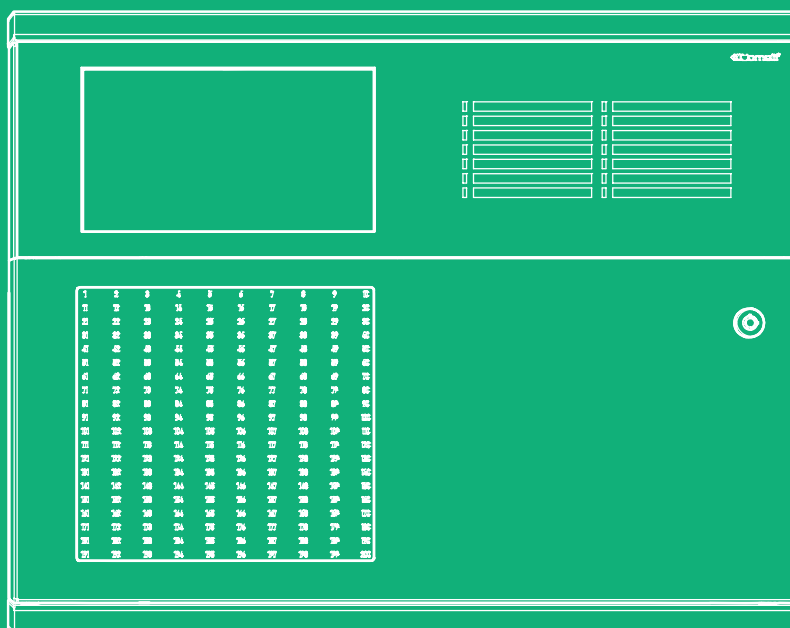


EN

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INSTALLATION AND PROGRAMMING MANUAL FOR
LOGIFIRE PANEL - 41CPE118

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DoP No: 045

EN 54-2:1997/A1:2006/AC:1999; EN 54-4:1997/A2:2006/AC:1999

41CPE118

Requisiti per la progettazione di centrali di controllo e segnalazione controllate via software

Caratteristiche essenziali	
Prestazioni in caso di incendio	Passato
Ritardo nella risposta (tempo di risposta all'incendio)	Passato
Affidabilità di funzionamento	Passato
Durabilità dell'affidabilità di funzionamento, resistenza termica	Passato
Durabilità dell'affidabilità di funzionamento, resistenza alle vibrazioni	Passato
Durabilità dell'affidabilità di funzionamento, stabilità elettrica	Passato
Durabilità dell'affidabilità di funzionamento, resistenza all'umidità	Passato

ATTENZIONE!

Leggere attentamente le istruzioni prima di iniziare l'installazione del prodotto e conservarle per eventuali necessità future. Le informazioni contenute in questo documento possono essere soggette a cambiamenti senza preavviso.

ATTENZIONE!

Questo manuale contiene informazioni relative alle restrizioni e al funzionamento del prodotto, ed anche informazioni sulle limitazioni nelle responsabilità del produttore. Il manuale va letto attentamente!

NORME E CONFORMITÀ

La centrale di allarme antincendio 41CPE118 è disegnata ai sensi, ed è conforme alle esigenze della norma EN 54 - 2/4. La centrale di allarme antincendio 41CPE118 è certificata secondo le esigenze del CPR (Regolamento Prodotti da Costruzione).

1. INTRODUCTION

41CPE118 is an analogue fire alarm panel that can cover up to 500 zones; it is supplied by default with 1 Loop but this can be expanded up to 4 using additional boards (Art. 41ECL120) connected directly in the panel itself. Its maximum expansion of 8 Loops in total can be achieved using the external 4-Loop box Art. 41CPE104 (1 Loop board by default).

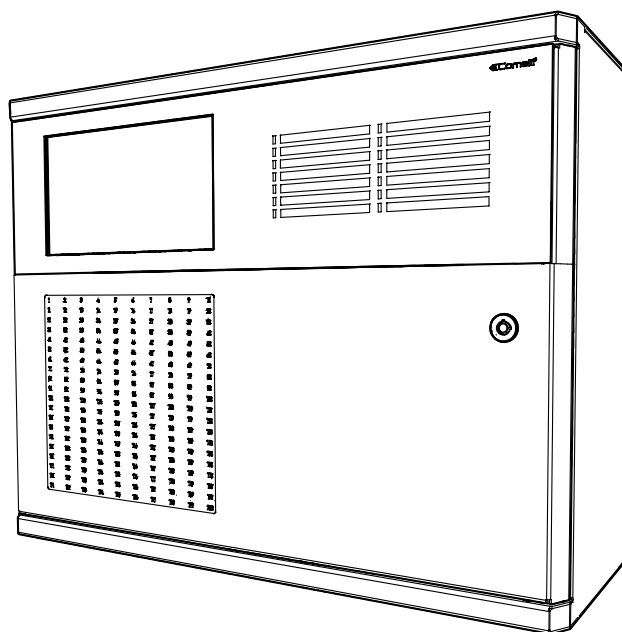
The panel uses Comelit communication protocol **which allows it to communicate with all new and old series of Comelit analogue devices.**

System installation must be planned carefully before the panel and devices are fitted, to avoid or considerably reduce problems during this stage. This includes: assigning an address to every device and planning a name of up to 40 characters (including spaces) for each address, thereby ensuring easy traceability of the device.

The devices must be grouped by Zone in compliance with current regulations for the construction of fire protection systems, and with the safety plan for the building.



Each 41ECL120 loop (Comelit communication protocol) offers the opportunity of connecting 250 devices (modules and/or sensors, regardless of type).



FRONT VIEW OF PANEL 41CPE118

1.1 GENERAL FEATURES

The front panel has a colour touchscreen display (dimensions 155x86 mm) and LED indications for viewing events and zone statuses.

Access to panel functions takes place via password for three individual access levels, while access to the internal components of the panel is protected by a special mechanical key. The panel box is almost 150 mm deep, guaranteeing easy access and laying of cables during installation, as well as quicker and easier wiring procedures.

Between one and four expansion boards 41ECL120 can be added to the output module.

The system can be expanded by connecting the panels in an Ethernet or RS485 network, where communication between them takes place via TCP/IP PROTOCOL, up to a maximum of 64 control panels / repeater panels linked.

The panel has a built-in real-time clock and a calendar, allowing operation in day and night mode. Switching between the two modes can take place automatically or manually. Events such as: FIRE, RESET, FAULT, etc., are saved in the memory, by creating an Event Log file, which records the time, date, device address, device type (module or sensor), device name, zone, zone name, etc. Events which can be easily viewed via the panel or printed directly on the thermal printer in real time (Art. 41PRN100) or by exporting the Log file via programming software.

1.1.1 Main technical features

- Loop controller - from 1 to 4 internal units (41ECL120), from 5 to 8 using box 41CPE104 (optional)
- Up to 250 devices (modules and/or sensors, regardless of type) for every Loop 41ECL120
- Max. current for each Loop board - 700 mA
- Display - 7" Resistive colour touchscreen (155x86 mm)
- Number of zones in the panel - 500
- Zone status repeater LED - 200
- Zone Groups - 48
- Communication protocol for Loop expansion devices 41ECL120 - Comelit
- ESPA 4.4.4 protocol - output from RS232 port (if selected)
- Monitored outputs - 4 (Sounders, Fire Brigade alarm transmission, Fault, Fire Protection):
 - ◊ Sounders (SND) = 1A @ 24 VDC
 - ◊ Fire Brigade alarm transmission (Fire R) = 100 mA @ 24 VDC
 - ◊ Extinguishing (Fire P) = 100 mA @ 24 VDC
 - ◊ Fault = 100 mA @ 24 VDC
- Monitored inputs - 4 (PrConf, FltPr, AlConf, Vds)
- Unsupervised relay outputs - 4 programmable - 30 VDC/10A (each)
- AUX output (terminals +24 V and GND) - 1 x 24 VDC@0.3A
- Logic inputs per panel - 250
- Logic outputs per panel - 250
- Programming in Day / Night mode
- Two alarm status levels - T1 and T2
- T3 for evacuation countdown
- Panel links - 64 max. between Comelit analogue panels or Repeater Panels 41CPR100
- Panel configuration via Ethernet or USB
- Connection with repeater panel 41CPR100 (optional)
- Connection with thermal printer 41PRN100 (optional)
- Connection with additional power supply unit 41ALM172 (optional)
- Flush mounting with frame 48BIA100 (optional)
- Designed for mounting in modular structures
- Multilingual menu
- Certification according to EN54-2, EN54-4, complies with EN54-13.
- 41CPE118 dimensions (LxHxD) - 430x330x150 mm
- Material - Metal
- Protection rating - IP 30
- Colour - Grey RAL 7045
- Weight - 7 kg

1.1.2 Working environment

- Operating temperature - from -10 to +50°C
- Relative humidity - up to 95% (without condensation)
- Storage temperature - from -10°C to +60°C

1.1.3 Electrical specifications

- Earthing

Earthing must be carried out in compliance with electrical safety regulations; the total resistance of the circuit must be lower than 10Ω.

The earth wire must be connected to the “earth” input of the fire panel terminal.

- Main power supply

In normal conditions, the fire panel is powered by the mains electricity supply. If the mains power is cut off, the power supply is guaranteed by means of a rechargeable backup battery. The electrical specifications of the main power supply are provided below:

- ◇ Main power supply - 110-230 VAC
- ◇ Frequency - 50/60 Hz
- ◇ Backup power supply - for 4 Loops 1 x 12 V / 18 Ah SLA (Sealed lead-acid) battery; 2 batteries for 8 Loops
- ◇ Internal battery resistance - <0.3 Ohm
- ◇ Max. continuous output current I_{max.a} - 2.7A
- ◇ Max. output current (batteries not charged) I_{max.b} - 5.0A
- ◇ Min. output current I_{min.} - 0.2A
- ◇ Output voltage (U) - from 10.2 V to 14.3 V (13.65 V @ 20°C)
- ◇ Electrical output - 4 loops 14.8A / 8 loops 29.6A
- ◇ Operating temperature - from -5°C to +40°C
- ◇ Protection rating - IP 30

- Consumption

From the electricity mains in standby mode:

- ◇ Configuration with 1 loop: 65 mA AC
- ◇ Configuration with 2 loops: 75 mA AC
- ◇ Configuration with 3 loops: 85 mA AC
- ◇ Configuration with 4 loops: 95 mA AC

Only with backup power in “Fault” condition, generating the message “AC loss”:

- ◇ Configuration with 1 loop: 285 mA DC
- ◇ Configuration with 2 loops: 360 mA DC
- ◇ Configuration with 3 loops: 435 mA DC
- ◇ Configuration with 4 loops: 510 mA DC

- Power supply and battery

- ◇ Output voltage (U): 13.8 V
- ◇ Output current: 20A
- ◇ Internal rechargeable battery resistance R_i: <0.3 Ohm
- ◇ Battery: 1 x 12 V/18 Ah, SLA (Sealed lead-acid) type
- ◇ Battery dimensions: 167x181x76 mm
- ◇ Battery connection type: with ring terminal Ø5 mm (M5)

- List of fuses

- ◇ Main power supply: 4A, Type T
- ◇ Outputs: 0.1A, Type PTC (3); 0.3A Type PTC (1); 1A, Type PTC (1)
- ◇ Battery: 15A, Type PTC



CAUTION: the fire alarm panel should not be installed near sources of strong electromagnetic fields (radio transmitters, electric motors, etc.)!



CAUTION: the panel should only be installed by qualified personnel.

The electronic components in the panel are vulnerable to electrostatic discharge.

NEVER make hardware changes when configuring the panel while the main or backup power supply is enabled!

2. INSTALLATION

The fire panel should be installed in a clean, dry place where it will not be subjected to knocks or vibrations. The panel is not waterproof!

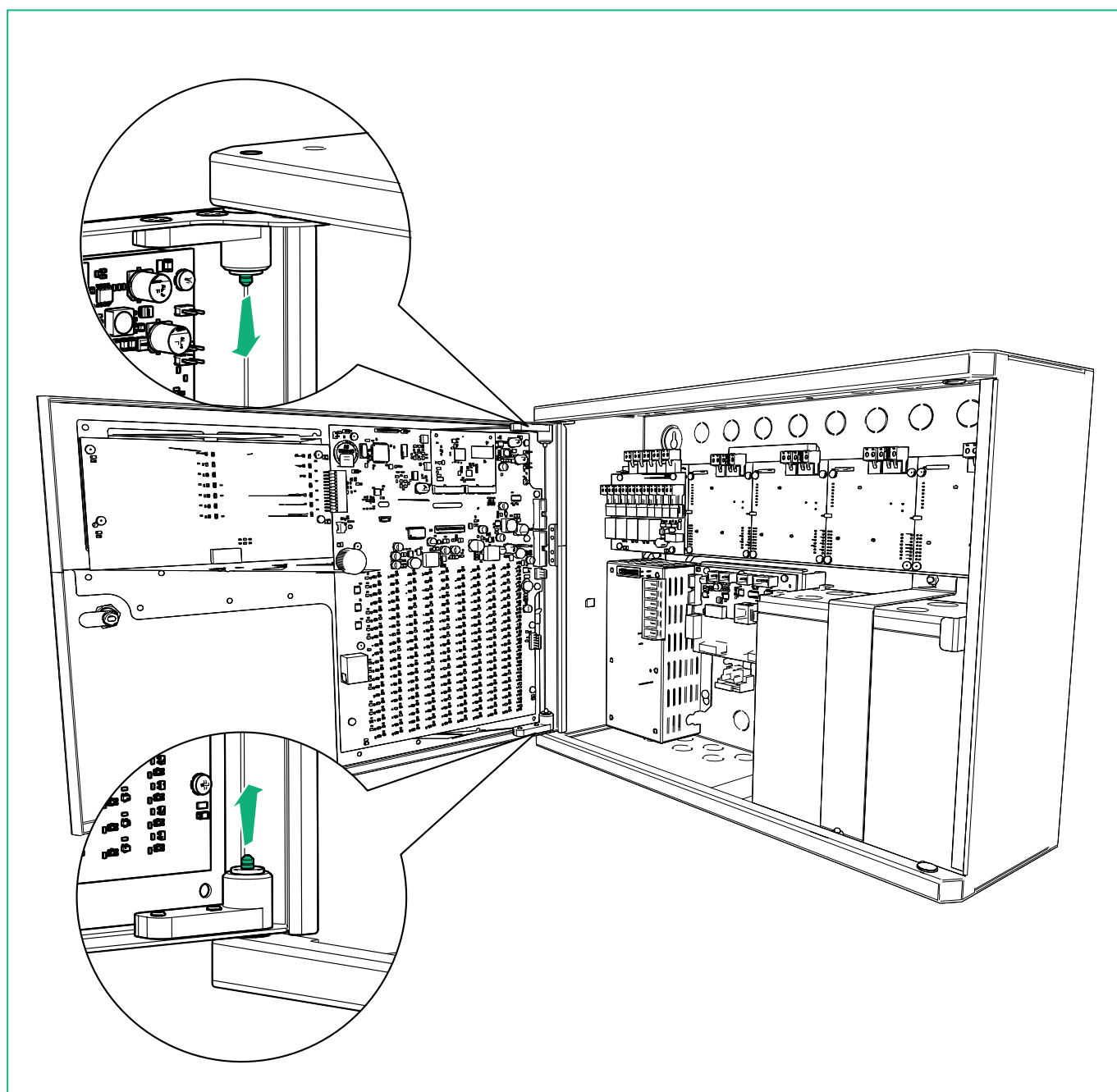
It must be positioned away from sources of heat, and the ambient temperature must be between -5°C and + 50°C.

2.1 Removing the front door

To make installing the panel easier, the front door can be removed using the spring-loaded pins inside the panel.

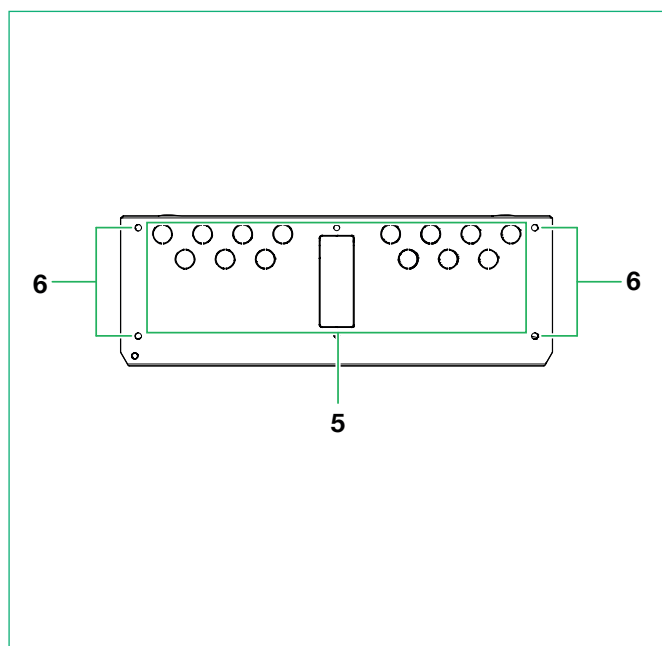
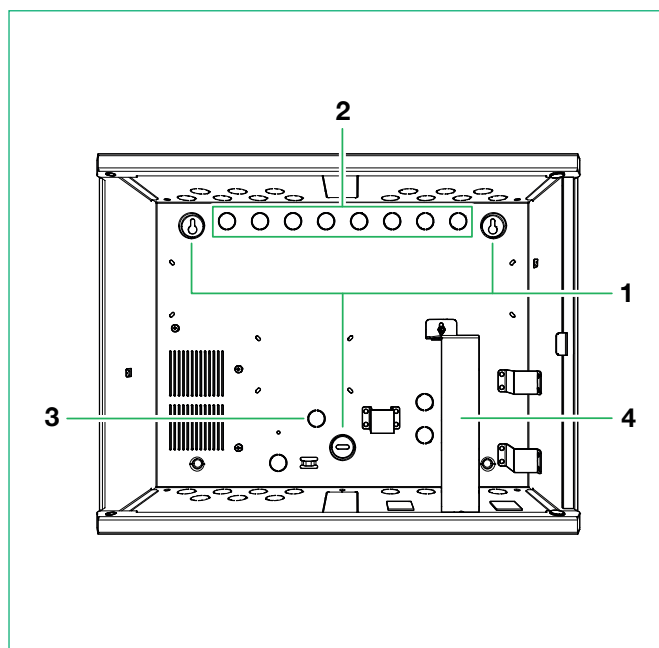
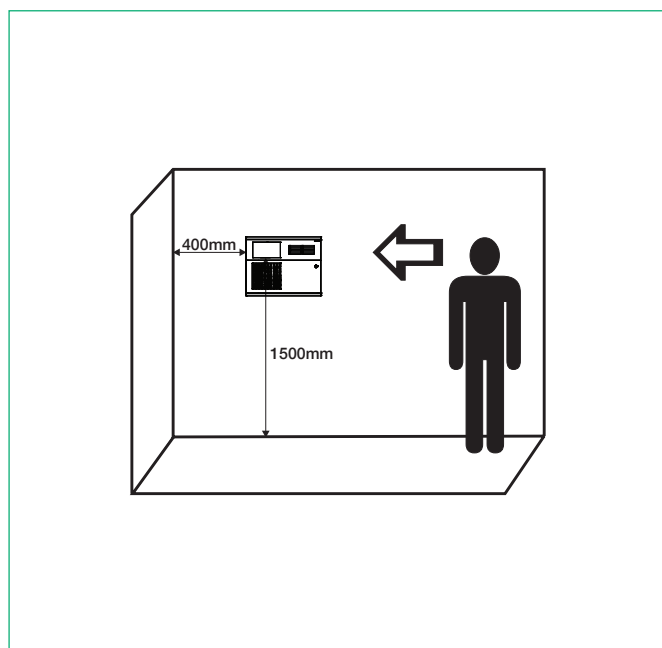
To remove the door, disconnect the flat connection cables originating from the boards inside the panel; use a slotted screwdriver to lift the pin at the bottom and shift the door outwards so that the pin comes out of its guide hole, then repeat the same procedure for the pin at the top and unhook the door.

To re-fit the front door, insert the top pin into its hole; use a slotted screwdriver to lift the bottom pin (or do so manually) and position the door inside the panel frame, so that the second pin also slots into its hole. You will hear it click into place when the correct position is found. Make sure the door is secure and reconnect the flat cables.



2.2 Wall mounting

- Proceed with wall mounting using the paper template and secure the bottom of the panel using the wall anchors and screws provided.
- Choose the inputs for the signal cables (loops, sounders, etc.) and for the main power supply cable, and remove the pre-perforated metal plugs only from the holes used to route the cables.
- Route the cables over the metal base of the panel.
- Connect the mains power supply and the earth cable to the power supply terminal and make sure the connections are secure; **DO NOT** switch on the main power supply at this stage.
- Position the battery upright and secure it with the metal clamp.
- Perform the necessary cable wiring.
- Once the connections have been made, power the panel; after the test phase is complete and when the panel is working normally, close the front door using the key supplied.
- Keep the keys in a safe place that can only be accessed by authorised technical personnel.



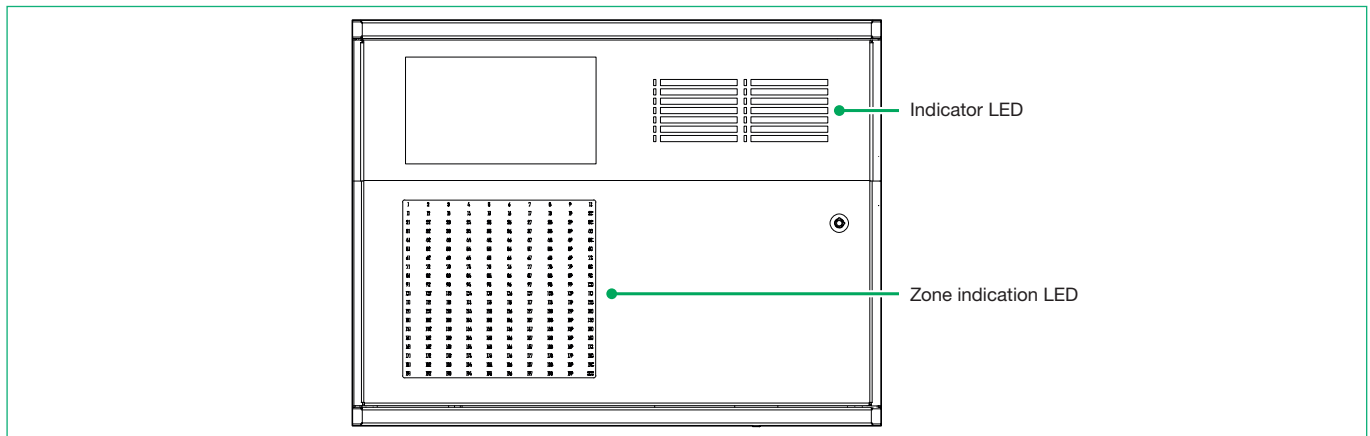
1. Holes for fixing the panel to the wall
2. Cable routing holes
3. Electrical power cable routing hole
4. Battery support bracket
5. Cable routing opening
6. Holes provided for modular mounting



CAUTION: fire panel 41CPE118 is also designed for flush mounting in conjunction with frame Art. 48BIA100.

3. SYSTEM COMPONENTS

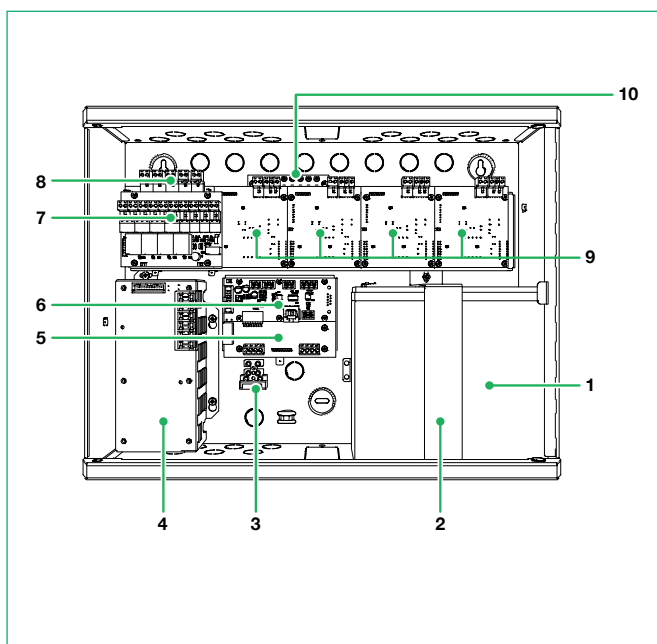
3.1 Front panel



Description of LED indications:

- **FIRE ALARM:** lit steadily in the event of a common fire alarm
- **PREALARM:** indicates one or more Zones in PreAlarm status
- **FAULT:** general fault indication (e.g. Device, Device or Panel output, etc.)
- **SYSTEM FAULT:** indication in the event of a system fault (e.g. Processor)
- **SILENCE:** general indication for silenced alarms
- **DELAY:** general indication of a delay for one or more outputs in the system
- **AC VOLTAGE:** indication that 230 V mains voltage is present
- **DISABLEMENTS:** indication of active system disablements (e.g. buzzer, device disabled, etc.)
- **TEST:** lit steadily in Test mode
- **WARNING:** indication that a technical warning has been received (e.g. input/output of a device enabled)
- **ALARM CONFIRMED:** indication received from alarm signalling equipment
- **OUTPUTS FAULTY/DISABLED:** monitored alarm output faulty / disabled
- **CONFIRM POWER DOWN:** confirmation of the indication received from fire protection equipment
- **POWER DOWN FAULT:** fault indication received from fire protection equipment

3.2 Internal modules for panel 41CPE118 (full configuration)



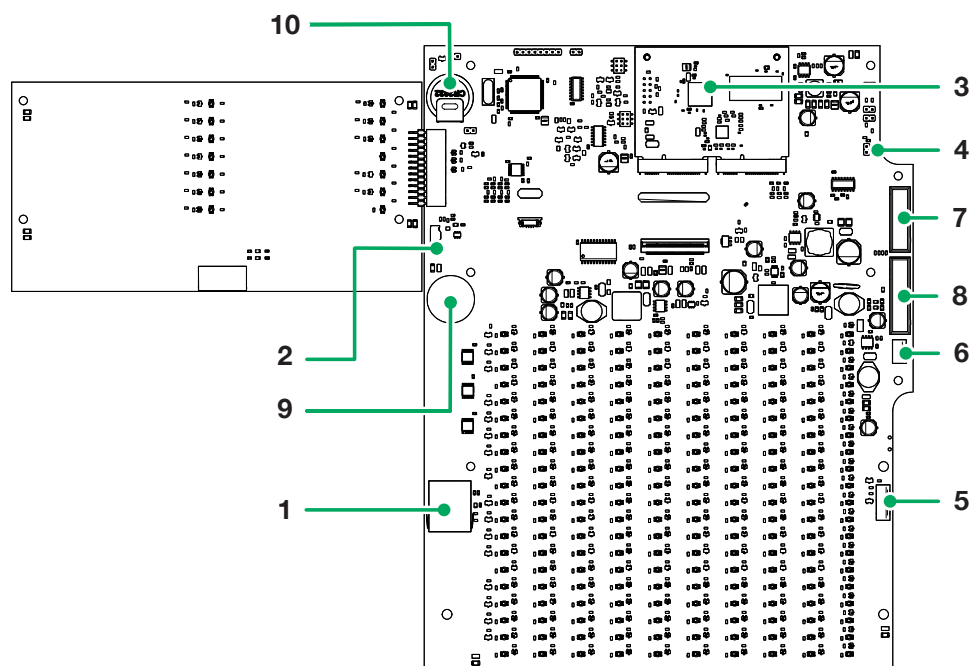
1. Rechargeable 12 V / 18 Ah battery
2. Battery support bracket
3. Terminal block for connection of the main 230 V power supply (4A fuse)
4. Main power supply unit
5. 41ECB000 redundant RS485 BUS expansion module (optional)
6. Module for interfacing with voice evacuation panel (RJ45) and RS232 port (printer connection or ESPA 4.4.4 protocol interfacing)
7. Module with 4 relay outputs and voltage-free switching contacts, plus 4 monitored inputs
8. Module with 4 monitored outputs
9. Loop boards from 1 to 4 (1 by default)
10. Facility for securing earth terminal block

3.3 Description of the motherboard elements

The motherboard is located on the inside of the front door of panel 41CPE118; the uPC control module, which monitors the panel functions and procedures, is mounted on it.



CAUTION: adjustments and changes to the motherboard must **ONLY** be implemented by authorised personnel!



Motherboard elements:

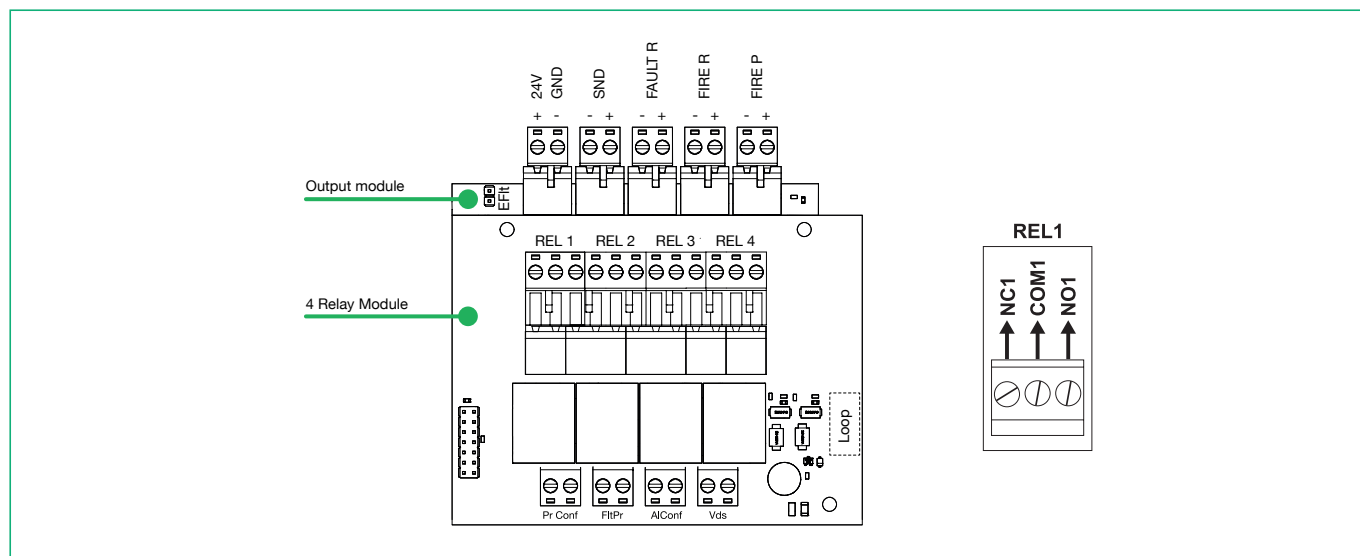
1. LAN - RJ45 port for network connection
2. USB - Micro USB connector for programming via panel firmware updating software
3. uPC - Control module
4. Restore Defaults* – Jumper for restoring the panel to its factory values
5. Ajax – AJAX LAN connector
6. Connector for box 41CPE104
7. JPOUT1 - Flat cable for interface module connection
8. JPIN1 - Flat cable for output module / loop expansion connection
9. Buzzer
10. Backup battery



***CAUTION:** if JPRESET is closed, every time the panel comes on, it will be set to its factory values; all programming saved on the panel will be lost!

3.4 Monitored output module and relay module

The output module is a fundamental element of the fire panel, which allows equipment and devices to be connected directly via the panel. It has 4 programmable switching relays with voltage-free contacts, 4 monitored outputs, an AUX output for external power supplies and 4 monitored inputs.



Description of the monitored output module terminal block:

- +24 V – Auxiliary output, 24 VDC @ 0.3A
- GND – Auxiliary output common earth
- SND – Monitored output for connection of sounders or visual/audible signalling devices. Enabled if there is an ACTIVE loop sounders event. 24 VDC / 1A
- FIRE R – Monitored output for the connection of external devices such as equipment for fire alarm transmission to the Fire Brigade. Comes on in the event of a Common Fire Alarm. 24 VDC / 100 mA
- FIRE P – Monitored output for the connection of external devices such as fire protection and extinguishing equipment. Comes on in the event of a Common Fire Alarm. 24 VDC / 100 mA
- FAULT R – Monitored output for the connection of external fault indication devices. This output is DISABLED in the event of a common fault. 24 VDC / 100 mA

Description of the terminal block for the 4 relay output module:

- REL 1, REL 2, REL 3, REL 4 – Relay outputs with switching (N.C. – COM - N.O.) voltage-free contacts, freely programmable via the fire panel settings. 30 VDC/10A (each)
- PrConf, FltPr, AlConf, Vds - Monitored inputs for indicating the fire protection and extinguishing equipment status.

Others:

- Loop - Interface connector for loop expansion connection
- EFIt - Jumper for enabling/disabling Earth Fault indication (Jumper closed, Earth Fault indication enabled)

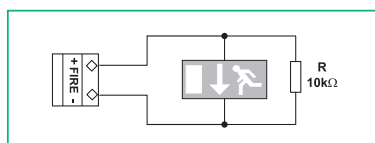
3.5 Connecting devices to the output module



CAUTION: It is essential to connect a 10 kOhm terminal resistor in parallel to the furthest device from the panel in the monitored circuit, so that the panel can constantly check whether the circuit is intact. See examples below.

The FIRE R outputs (Fire Brigade alarm transmission) and FIRE P (extinguishing) are monitored outputs; the first is dedicated to the connection of equipment providing fire alarm indications to monitoring authorities, while the second is used to send activation commands to fire protection and extinguishing systems.

N.B.: The FIRE R and FIRE P outputs are enabled in the event of a “Common Fire Alarm”.



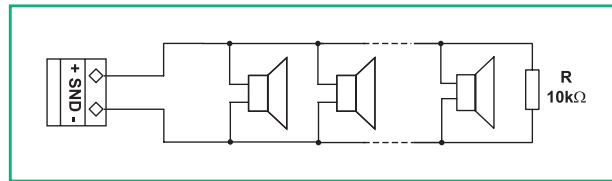
Connection example for an indication device, connected to the FIRE output.

The SND monitored output (sounders) is dedicated to the connection of conventional sounders. The maximum number of sounders connected to the output must not exceed a current of 1A.

Note: The SND output is enabled if there is a “Loop sirens active” event.

Note: If the sounders are set to “Flash only” it is not considered a Loop sirens active event. The SND output is not enabled.

N.B.: Press the “Silence Sounder” button to disable the SND output.



Connection example for an indication device, connected to the SND output.

3.6 Loop Controller

Panel 41CPE118 communicates with Loop Controllers (41ECL120) using Comelit communication protocol.

Connection of Loop boards takes place via a “comb” terminal, where the first board (supplied by default inside the panel) is connected to the output module.

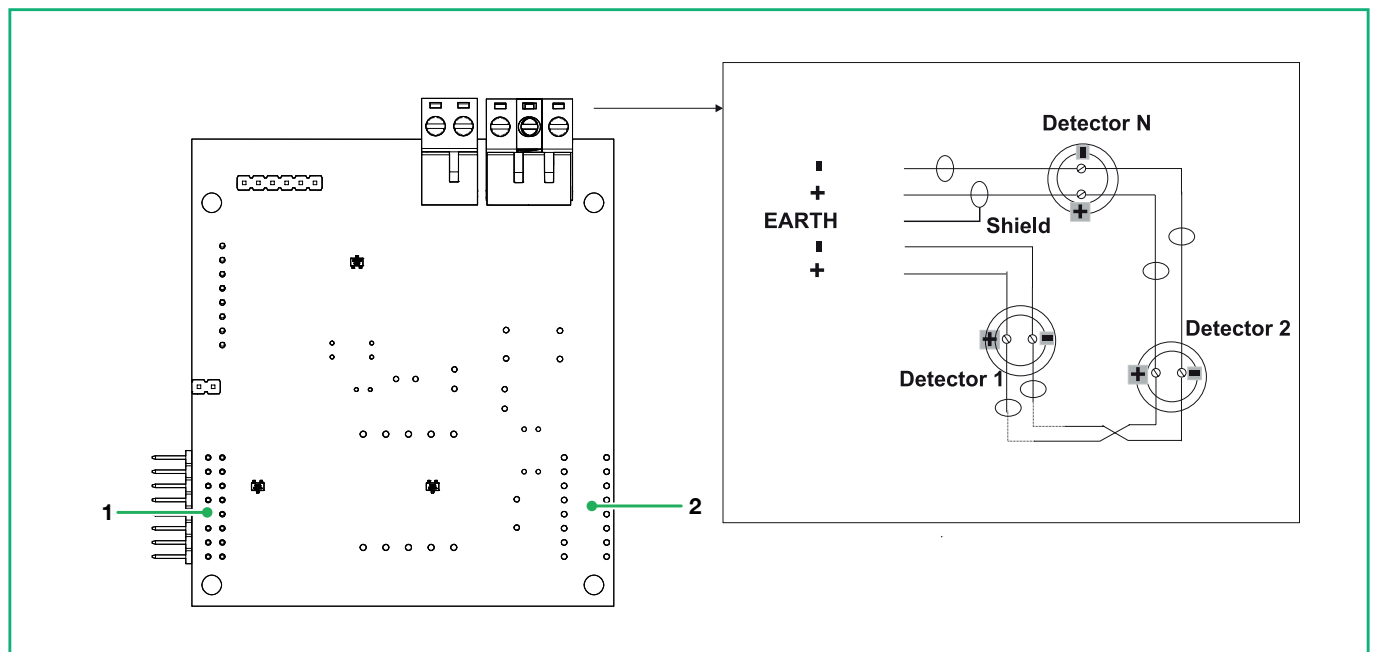
The Loop expansion has 2 main functions:

1. It collects data from the devices connected to the communication line and transmits this data to the output module.
2. It receives commands from the output module and transmits them to the devices connected to the communication line.

Up to 250 devices can be connected to each Loop controller 41ECL120.

The maximum absorption of the devices on each Loop board should not exceed $I_{max} = 700 \text{ mA}$.

If consumption exceeds this value, an overload protection will be triggered.

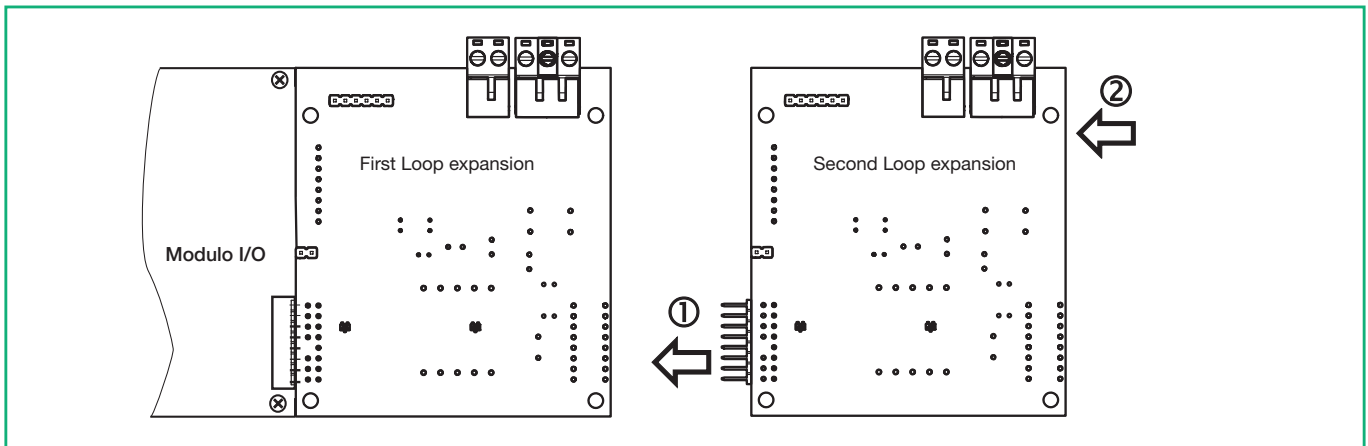


1. “Comb” terminal for connecting the Loop board to the output module or to a second Loop board
2. “Female” connector for connecting a Loop board inside panel 41CPE118

Adding a Loop board inside panel 41CPE118



CAUTION: ALWAYS cut off the mains (230 V) and backup (battery) power for the panel when adding or removing a Loop expansion.



1. Insert the connectors on the second Loop expansion into the terminal on the first.
2. Secure the second Loop board to the metal frame using the screws provided.

N.B.: The third and fourth expansion boards are added in the same way, as illustrated in the figure.

3.6.1 4-Loop expansion box - 41CPE104 (optional)

Expansion box 41CPE104 for panel 41CPE118 is supplied as standard with 1 Loop, which can be expanded to 4 using 3 boards 41ECL120. This means fire panel 41CPE118 can reach its maximum expansion with a total of 8 Loops. Up to 250 addressed devices (detectors, buttons, I/O modules, sounders, etc.) can be connected to each loop. It has a tough grey metal container which is the same size as the panel and other Comelit modular boxes, to guarantee its modularity and ensure it can be fitted alongside other boxes during installation.

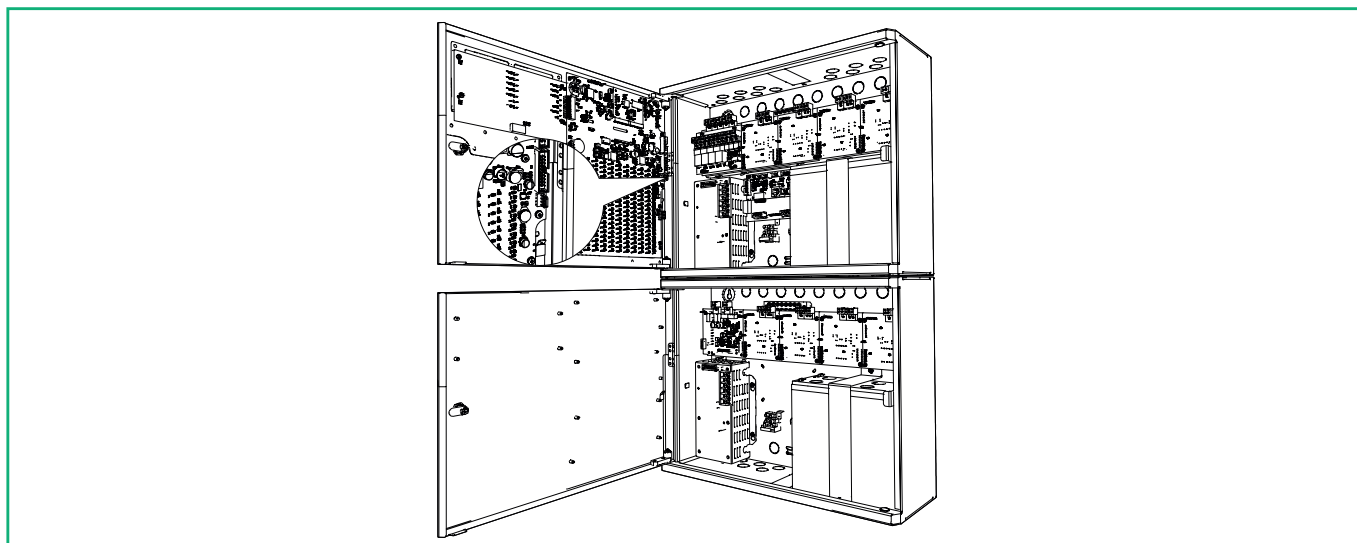
It has a 14A power supply unit with a 12 V battery output (12 V / 18 Ah).

Certification according to EN54-2, EN54-4 and complies with EN54-13.

Fitting and connecting the communication cable

Combining and fitting modular structures takes place using the screw kit provided.

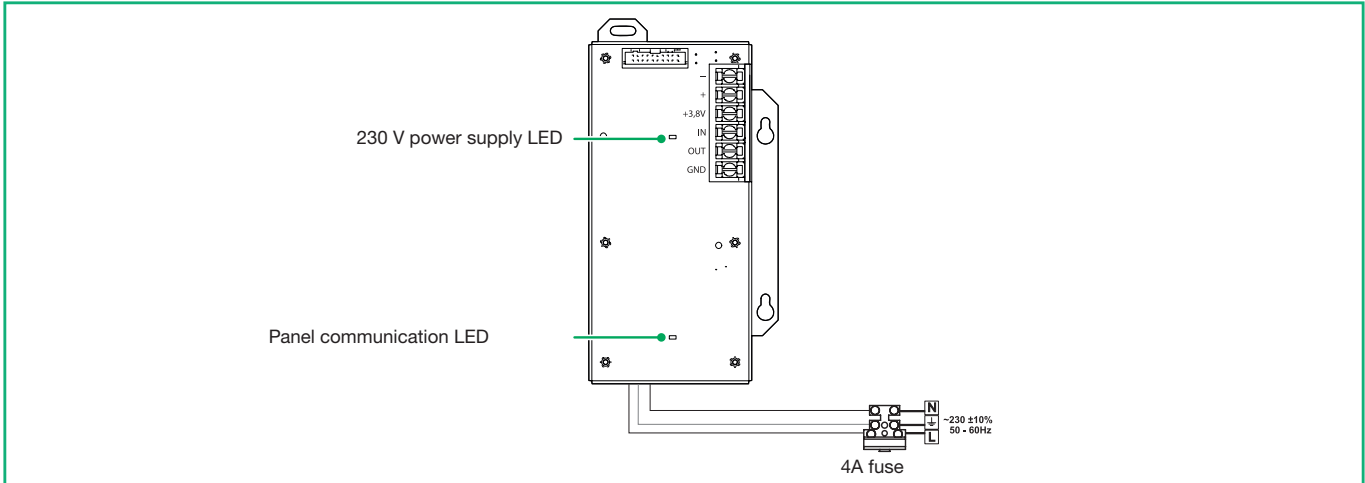
To connect the communication cable between box 41CPE104 and fire panel 41CPE118, simply connect the flat cable located inside the additional box to the dedicated terminal inside panel 41CPE118.



41CPE104 technical / electrical specifications

- Loop controller – from 1 to 4 (1 by default)
- Up to 250 devices (modules and/or sensors, regardless of type) for every Loop 41ECL120
- Max. current for each Loop board - 700 mA
- Communication protocol for Loop expansion devices 41ECL120 - Comelit
- Monitored outputs - 1 (SND) for sounder connection = 1A @ 24 VDC
- AUX output (terminals +24 V and GND) - 1 x 24 VDC@0.5A
- Certification according to EN54-2, EN54-4 and complies with EN54-13
- Main power supply - 110-230 VAC
- Frequency - 50/60 Hz
- Battery – 1 x 12 V / 18 Ah, SLA (Sealed lead-acid) type
- Battery connection type: with ring terminal Ø5 mm (M5)
- EFlt - Jumper for enabling/disabling Earth Fault indication (Jumper closed, Earth Fault indication enabled)
- Dimensions (LxHxD) - 430x330x150 mm
- Material – Metal
- Protection rating - IP 30
- Colour - Grey RAL 7045
- Weight – 7 kg
- Operating temperature – from -10 to +50°C
- Relative humidity - up to 95% (without condensation)
- Storage temperature - from -10°C to +60°C
- Designed for mounting in modular structures

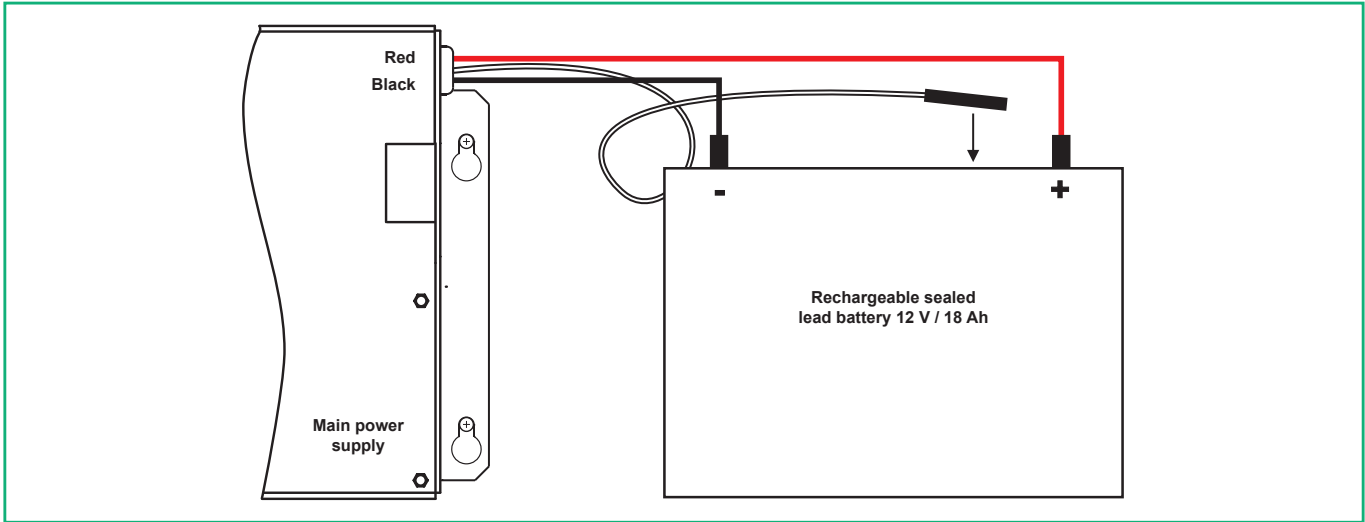
3.7 Power supply unit - panel 41CPE118




Description of the power supply unit terminal block

FUNCTION	DESCRIPTION
-	Board power supply
+	
+13.8 V	Additional power supply unit input
IN	Input for connection of the additional power supply unit output (Fault Out)
OUT	Error output, enabled when problems arise with the power supply voltage. It is connected to the additional power supply unit input (Fault In)
GND	Input for connecting the additional power supply unit to earth

Before connecting the main power supply, make sure each Loop, sounder or other input / output is connected correctly and the earth cable is connected.



Connect the red cable to the positive battery pole, and the black cable to the negative pole. The two cables should be connected to the battery by means of a Ø5 mm ring terminal. Position the temperature sensor behind or underneath the battery to ensure the temperature value is read correctly.



CAUTION: When connecting the battery to the power supply unit, several details must be taken into account.

- Only use batteries which are the correct size with the electrical specifications as indicated by the manufacturer.
- Before connection to the power supply unit, check the battery polarity.
- The battery cannot power the panel before the mains power is switched on.
- Battery recharging takes place at a maximum current of $I = 2A$ and voltage $U \leq 13.8 V$.

3.7.1 Additional power supply unit – 41ALM172 (optional)

Unit 41ALM172 is a power supply unit designed to supply additional power to addressed fire panel 41CPE118. The power supply unit is housed in a metal container suitable for creating a modular structure with the addressed panel and a second power supply unit. Access to the main board and the cable connections is guaranteed by a special key (supplied). The status of unit 41ALM172 is shown via specific LED indications on the PCB. The status of the power supply unit can be monitored constantly by enabling the option “Check external power” in the menu of panel 41CPE118. To access the menu for this function, proceed as follows:

SYSTEM – PROGRAMMING – DEVICES – PERIPHERY and enable CHECK EXTERNAL POWER on the fire panel.

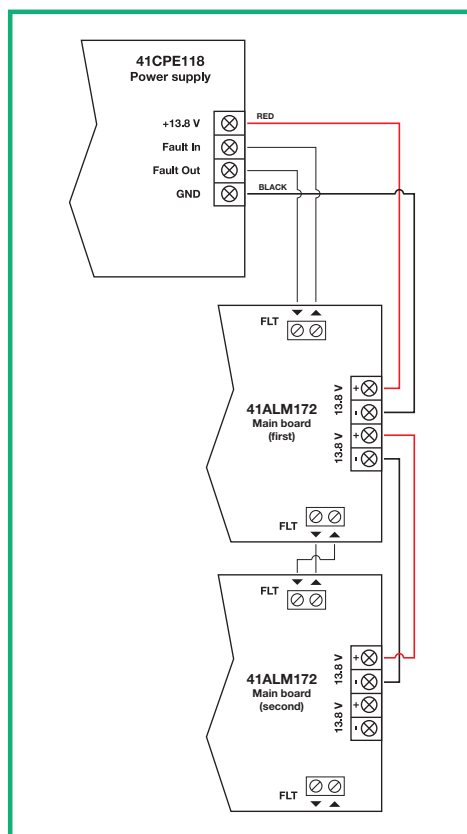
When the option is enabled, the panel will display an error message “External Power Supply Fault, Periphery Device 1-PSU” in the event of problems with the power supply unit. The corresponding power supply fault will be indicated by an LED flashing on the PCB.

During normal operation, only the green “OK” LED flashes and all the other LEDs are off. If the main power supply (230 V~) is cut off, the yellow “FLT” fault LED starts flashing and the green “OK” LED turns off. If there are problems with battery 1 and/or 2, the yellow LEDs for sections Batt1 and/or Batt2 will flash.

For a detailed description of all the LED indicators, please refer to the technical manual for 41ALM172.

Connection

The connection diagram for a panel 41CPE118 with 2 additional power supply units 41ALM172 is shown below:



NOTE: On the FLT terminals, the arrows facing in the inside of the main board for the 41ALM172 indicate the terminals for board input signals, while the arrows facing outwards indicate the terminals for board output signals.



CAUTION:

- **Switch off the main power supply and the battery for panel 41CPE118 before installing the power supply unit 41ALM172!**
- **Only use the connection cables supplied with the equipment: red and black cables for connection to the JP4 terminals; white and grey cables for connection to the FLT terminals! Do not shorten or lengthen these cables!**
- **Perform all wiring in observance of the connection polarities, following the connection diagrams shown. If, after switching on power supply unit 41ALM172, the “INCORRECT CONNECTION” LED is on, switch off the power supply immediately and check the connection between the power supply unit for panel 41CPE118 and the JP4 terminals on 41ALM172!**
- **If the “High resistance” LED for Battery 1 or 2 is flashing, we strongly recommend you replace the batteries immediately!**

41ALM172 technical / electrical specifications

- Main power supply - 230 V~ +10%/ -15%, 0.6A, 4A fuse
- Frequency - 50/60 Hz
- VDC output:
 - ◊ Voltage - 9.9-14.2 Vdc
 - ◊ Maximum current - 7A@1 battery, 14A@2 batteries
- Internal battery resistance Ri - < 0.3 Ohm
- Maximum battery capacity - 2x12 V/18 Ah
- Charger output - 13.65 Vdc $\pm 1\%$ @20°C, max. 2A
- Dimensions (LxHxD) - 430x330x150 mm
- Material – Metal
- Protection rating - IP 30
- Colour - Grey RAL 7045
- Weight – 6 kg (without batteries)
- Operating temperature – from -5 to +40°C
- Relative humidity - up to 95% (without condensation)
- Storage temperature – from -10 to +60°C
- Flush mounting with frame 48BIA100 (optional)
- Designed for mounting in modular structures
- Certification standards – EN54-4, complies with EN54-13

3.8 Connecting the thermal printer - 41PRN100 (optional)

Thermal printer for addressed panel 41CPE118, with a tough grey metal container which is the same size as the panel and other Comelit modular boxes, to guarantee its modularity and ensure it can be fitted alongside other boxes during installation. Allows the operator to print events such as: alarms, faults, activations and technical warnings, recorded in the panel memory. The memory has a capacity of 10240 events, which are saved and printed with the date and the time at which the event occurred.

2 LEDs on the front door show the status of the printer. Connection to the 41CPE118 panel takes place via RS232 serial interface; the connection cable is supplied with the printer and should be connected TO THE RS232 PORT of panel 41CPE118.

To ensure the 41PRN100 printer communicates with panel 41CPE118, access the fire panel menu, logging in as a level 3 user, and carry out the following steps in sequence:

SYSTEM – PROGRAMMING – PANEL – PRINTER

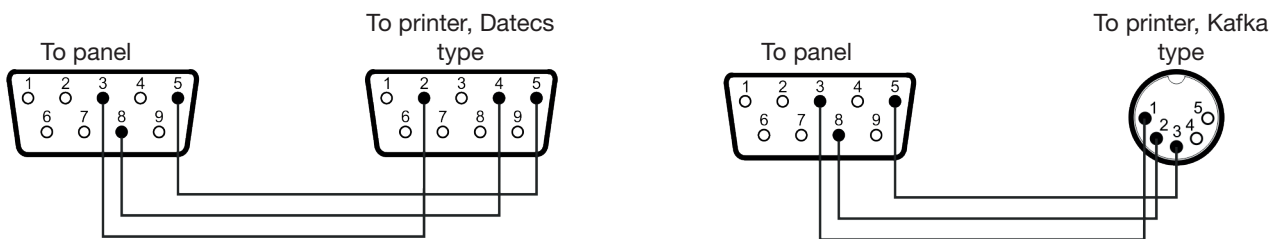
In the Printers menu, select “Printer 41PRN100” and save the changes.

Make sure the printer is working properly.

Panel 41CPE118 supports operation with external Canon 9 type printers, Kafka and Datecs models.

To connect the panel to the printer, you need to prepare a special cable – connect two male connectors DB9-DB9 (Datecs) and DB9-DIN5 (Kafka).

Before starting to print, check the connections between the printer and the fire panel.



Connection diagrams for an external thermal printer.

41PRN100 technical / electrical specifications

- Main power supply - 110-230 VAC
- Frequency - 50/60 Hz
- Dimensions (LxHxD) - 430x330x150 mm
- Material – Metal
- Protection rating - IP 30
- Colour - Grey RAL 7045
- Weight – 5.5 kg
- Operating temperature – from -10 to +50°C
- Relative humidity - up to 95% (without condensation)
- Storage temperature - from -10°C to +60°C
- Flush mounting with frame 48BIA100 (optional)
- Designed for mounting in modular structures

3.9 CONNECTING AND PROGRAMMING RS485 MODULE - 41ECB000 (optional)

The addressed fire alarm panel 41CPE118 is designed for connection in a redundant serial communication network of several 41CPE118 panels, 2-Loop panels Art. 41CPE112 and repeater panels 41CPR100, up to a maximum of 64 panels in the network, guaranteeing a backup connection line in case of an individual fault with the physical support. The redundant network is based on the RS485 communication interface, where the maximum distance between two 41ECB000 boards (or repeater panel) should not exceed 1000 m.

Connect the module in the panel to the dedicated terminal.



CAUTION: The network module should only be added to the panel configuration and connected to the voice interface board **WHEN THE MAIN AND BACKUP POWER SUPPLY IS SHUT OFF!**

To program the 41ECB000 module, access the 41CPE118 panel menu, logging in as a level 3 user, and carry out the following steps:

SYSTEM – PROGRAMMING – PANEL – NETWORK – NETWORK SETTINGS

In the Network Settings menu, set:

NETWORK STATUS = **ENABLED**

NETWORK TYPE = **RS485**

PANEL NUMBER = **X** (set a different number for every piece of equipment in the network)

Save the changes.

To enable board redundancy, still via the NETWORK SETTINGS menu, press MORE and set REDUNDANCY = **ON**, then save the changes.

N.B.: remember to assign a different number to each panel/repeater panel, so that you do not create duplicate panel addresses.

To store and add all panels linked to the RS485 network to the programming, carry out the following steps:

SYSTEM – PROGRAMMING – PANEL – NETWORK – PANELS

In this menu, use the arrows to scroll through the panels in the system; you will only be able to see the IP code and status (present, fault...) of the panel on which you are working. On the other panels in the network the **ADD** button will be active; when you press it the second panel will be added to the network configuration.

At this point, select what the second panel should send or receive from the other connected panels:

RECEIVE MESSAGES: when this is enabled, the panel will receive all incoming messages from other linked panels (technical, fault, alarm messages...)

RECEIVE COMMANDS: when this is enabled, the panel will receive all incoming commands from other linked panels (evacuate, activate sounders, silence buzzer/alarm command)

SEND COMMAND: when this is enabled, the panel will be able to send commands to other linked panels (if these are enabled to receive commands from other connected panels)

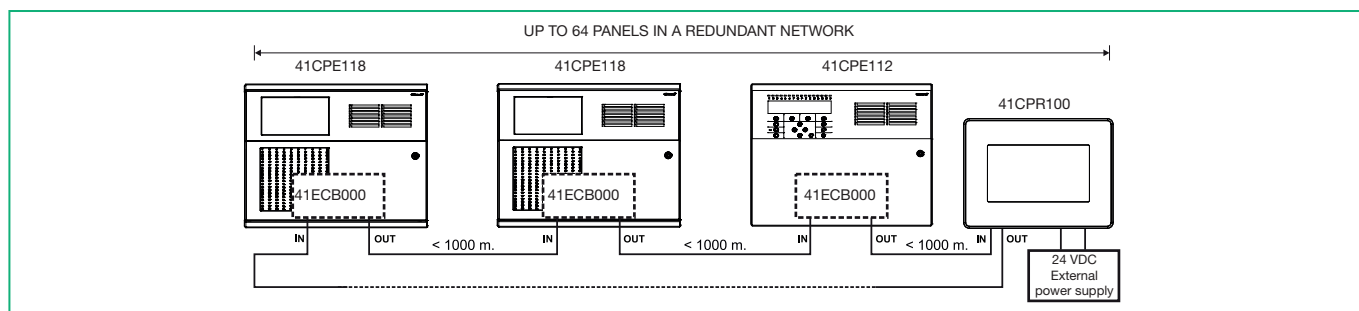
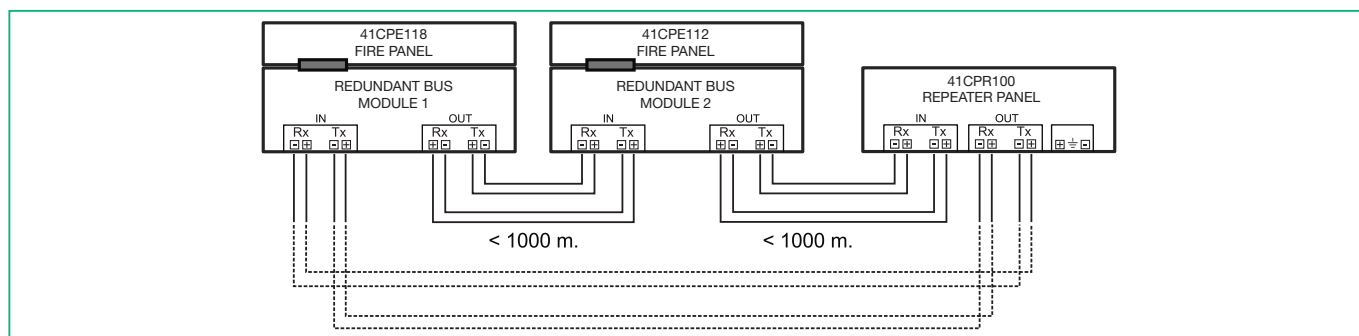
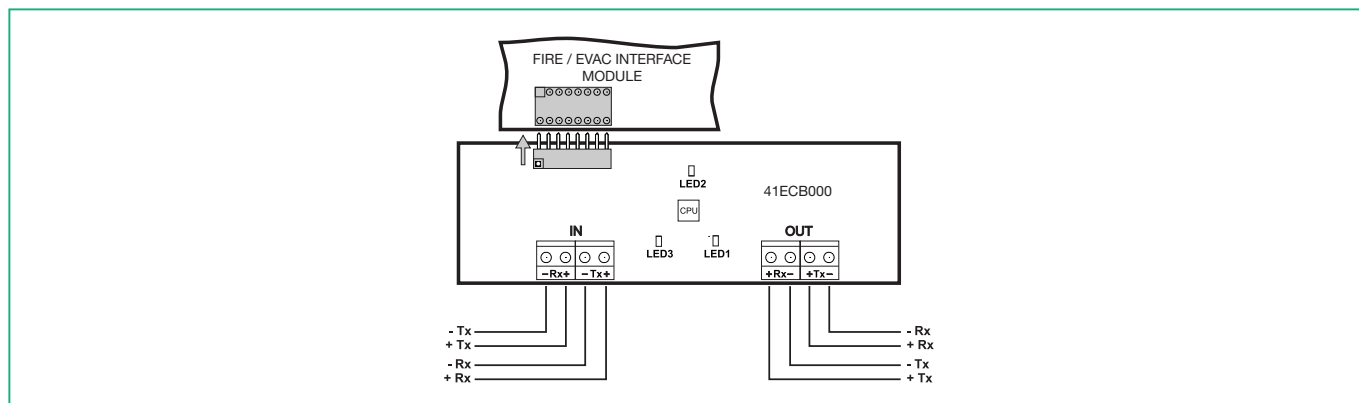
In the same PANELS menu section, press **MORE** to enable or disable some repeater functions:

REPEAT SOUNDER: when this is enabled, sounder and SND output activation on the panel is repeated for the other panels

REPEAT FIRE BRIGADE: when this is enabled, monitored Fire Brigade output activation is repeated for the other panels (FIRE R alarm transmission)

REPEAT FAULT OUTPUT: when this is enabled, Fault indications are repeated for the other panels

REPEAT FIRE PROTECTION: when this is enabled, activation of the monitored output dedicated to extinguishing is repeated for the other panels (FIRE P)

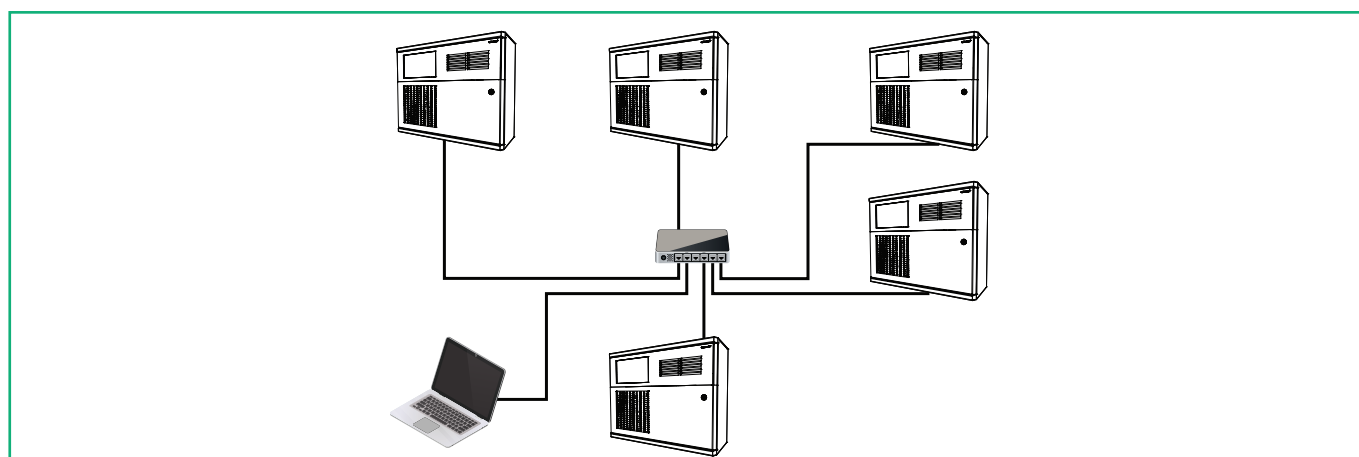


3.10 CONNECTING THE LAN

Up to 64 fire panels 41CPE118 can be connected in a LAN connected to a switch; using TCP / IP protocol and via a supervisor PC, the status of the individual fire detection panels can be monitored and commands executed for them.

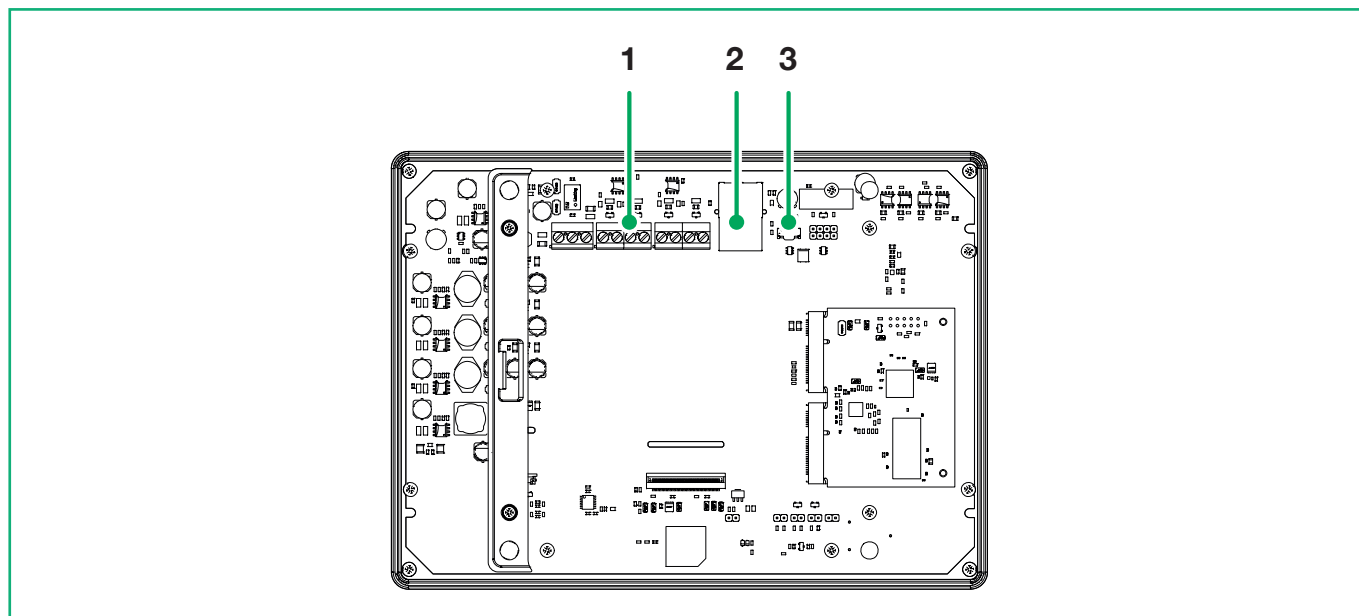
To use the LAN module, the installer must set the panel Network Type as “LAN”, see Network Settings menu.

The Ethernet port used for LAN cable connection is located on the motherboard inside the front door of the panel.



3.11 REPEATER PANEL 41CPR100 (optional)

Repeater panel 41CPR100 makes it possible to receive all indications originating from the system, and to execute all the commands, even those furthest away from the panel, when operators are not able to physically access the panel. It has a 7" resistive colour touchscreen display, which reproduces the same user interface that appears on panel 41CPE118. Maximum number of panels that can be connected on the RS485 network or TCP/IP LAN: 64. Direct commands for Silence buzzer, Silence alarm, Reset, Evacuate and Test Indications.



1. Terminal block 41CPR100:

- ◊ **IN** – RS485 input for connection to the panel(s);
- ◊ **OUT** – RS485 output for connection to the panel(s);
- ◊ **Power** - Repeater panel power supply - 24 VDC;

2. **ETH** – Ethernet port for connection in TCP/IP LAN with the panel(s);
3. **Micro USB** - Micro USB for programming and updating firmware.



CAUTION: When connecting to the network (RS485 / LAN) with fire panels 41CPE118 or 41CPE112, please refer to the previous paragraphs.

MOUNTING KIT FOR 41CPR100

The 41CPR100 repeater panel is supplied as standard with the surface mounting kit. Furthermore, the repeater panel can be flush-mounted or mounted on a desk base using the optional mounting kits. Details for the optional kits are as follows:

- **41KPR101:** Desk base kit, consisting of a desk base that can be adjusted between 2 positions, cap and 2 plastic fixing backplates.
- **41KPR102:** Flush mounting kit, consisting of an outer frame and 4 backplates to secure the structure.

41CPR100 technical / electrical specifications

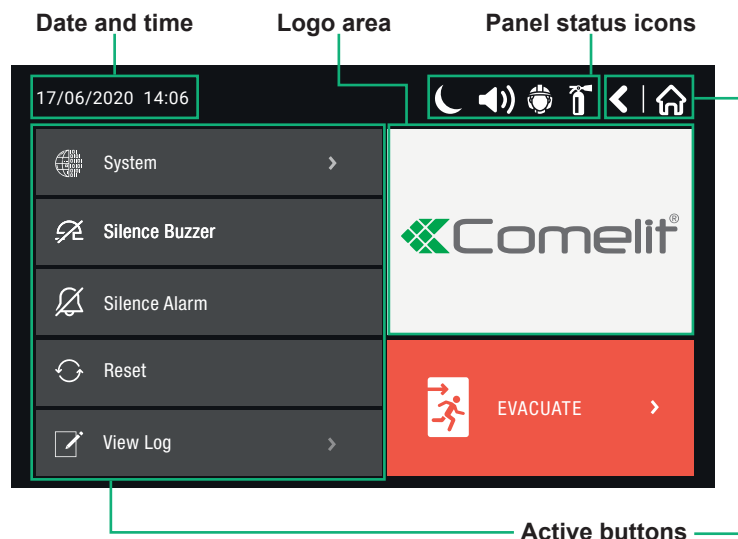
- Main power supply: 24±4 V DC
- Maximum consumption: 220 mA
- Communication: RS485 / LAN
- Display: 7" Resistive colour touchscreen
- Maximum terminal cross-section: 0.4 – 2.5 mm²
- Operating temperature: from -5°C to +50°C
- Weight: 0.77 kg
- Protection rating: IP 30
- Panel dimensions (LxHxD): 227 x 166 x 38 mm
- Display dimensions: 155x86
- Colour: housing - white RAL 9002; frame - black

4. PROGRAMMING

4.0 BASIC PROGRAMMING VIA PANEL 41CPE118 TOUCHSCREEN

The 41CPE118 fire detection panel touchscreen provides a simple and intuitive interface for navigating the panel programming menu and system parameters. Access the programming menu by lightly tapping the desired button. You can also use a special “stylus” for touchscreens.


Depending on the selected menu and / or the access level, some of the buttons on the screen are enabled or disabled. When you tap an active button, the display window changes and, depending on the current access level, a higher user / installer level will be requested, if necessary, to access that specific menu. Once access has taken place, a list of additional menus or submenus will be shown.



• **Active buttons** - These buttons are used to carry out various procedures: stop the sounders, restore the system parameters or move between the programming menus.

Note: the status of these buttons may change (active-inactive) according to the programming menu and access level.

Pressing  takes you back to the previous screen.

Pressing  takes you back to the initial screen.

• **Panel status icons** - The icons provide information about the status of the fire panel and the programmed operating mode. The icons are inactive if tapped. The different fire panel statuses are indicated with different icon colours.

• **Logo area** - Area intended for a client Logo or image, loaded via programming software.

• Symbols used:



- Tap the indicated button



- Use a stylus for touch displays

4.0.1 INITIAL STARTUP

At startup, fire panel 41CPE118 always goes through the initialisation procedure, which takes around 30 seconds. The panel menus cannot be accessed during this period.


After the initial startup, there is no saved configuration on the panel. Initialisation may take a few minutes. The time depends on the number of periphery devices and Loop expansions in the configuration of the panel. After startup, the process of searching for new periphery devices and Loops begins - see APPENDIX D.

4.0.2 CHANGING THE LANGUAGE

The 41CPE118 panel supports various languages for the programming menus.

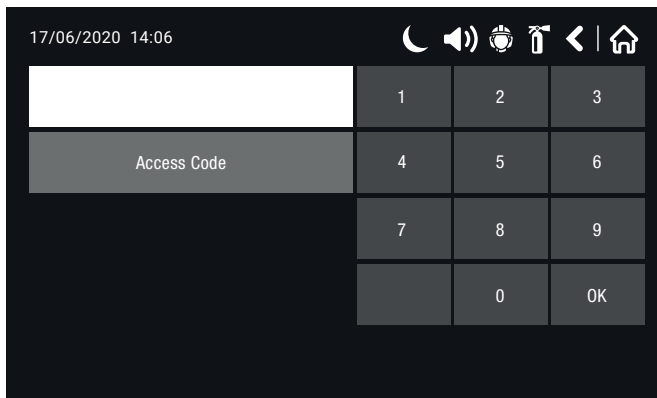
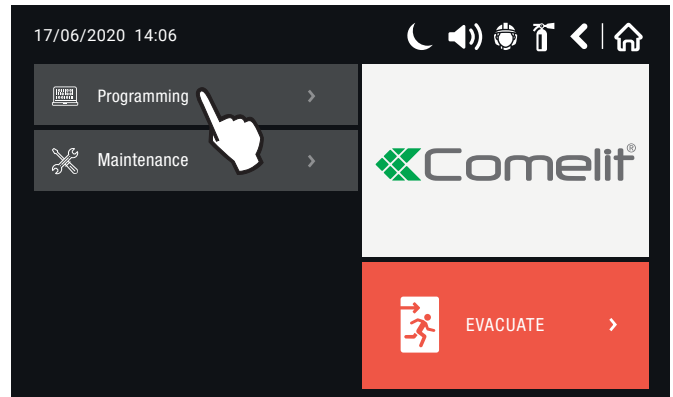
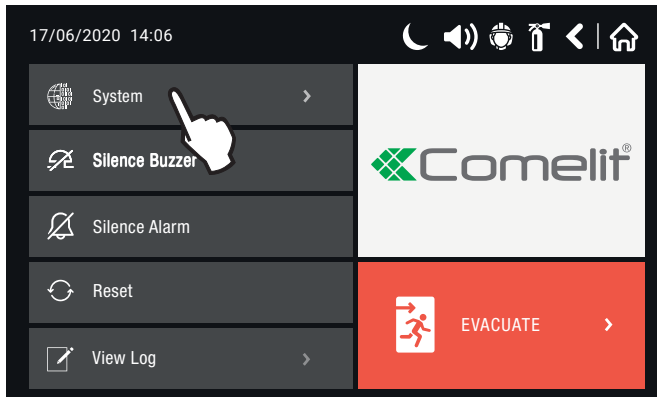
The default language is English. The language can be changed after initial startup> Proceed as follows:

- Access 1 - 3333 - OK - System - Programming - Panel - Languages - Select the desired language - Save

After saving the changes, you can return to the main screen by pressing 

4.1 ACCESS CODES

On entering the **Programming** and **Maintenance** menu, the panel will request a valid access code.



The panel has 4 default access codes, 3 of which are dedicated to Installer / User access modes, which have different access rights and functions, as listed below:

CODE NUMBER	CODE	ACCESS LEVEL	FUNCTIONS
1	0000	1	Only the Silence Buzzer and Delay Override buttons are active. Access to the Programming and Maintenance menus is not permitted.
2	1111	1	
3	2222	2	The System, Delay Override, Silence Buzzer, Silence Alarm, RESET and Evacuate buttons are active. Access is only enabled for a limited number of functions in the Maintenance menu.
4	3333	3	The System, Delay Override, Silence Buzzer, Silence Alarm, RESET and Evacuate buttons are active. Access to all Programming and Maintenance menu functions is enabled.

The sequence of digits entered is confirmed by pressing OK.

All access codes can be shown and edited in the "Access Codes" submenu from the "Panel" menu.

There are various panel operating restrictions in the different access levels, as listed in the table below:

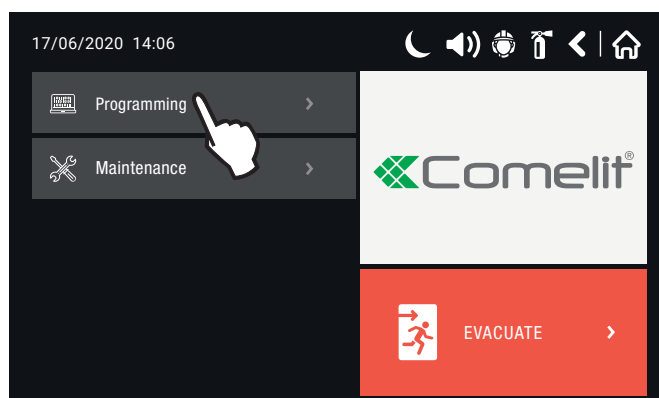
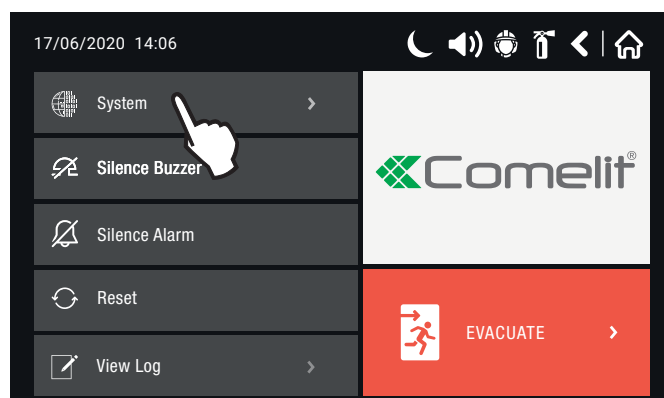
	MENU	DESCRIPTION	ACCESS LEVEL		
			1	2	3
Control panel Main screen	Silence buzzer	Deactivation of buzzer	√	√	√
	Silence alarm	Deactivation of sounder		√	√
	Force delay	Deactivation of all delays enabled for the outputs, except Fire Protection	√	√	√
	RESET	Reset all active statuses	-	√	√
	Evacuate	Activation of evacuate signal	-	√	√
	Alarms 000	View system alarms	√	√	√
	Faults	View system faults	√	√	√
	Advanced	View warnings	√	√	√
	MENU	Main screen	√	√	√
	Login	Screen for entering the access code	√	√	√
System	Programming	Devices	-	-	√
		Zones	-	-	√
		Inputs	-	-	√
		Outputs	-	-	√
		Panel	-	-	√
		Factory settings	-	-	√
		Save	-	-	√
	Maintenance	Time	-	-	√
		Date	-	-	√
		Day	-	-	√
		Output delay	-	-	√
		View log	-	-	√
		Tests	-	√	√
		Disable	-	√	√
		Software version	-	-	√
		Coordinates	-	-	√
		Isolators enabled	-	-	√

4.2 PROGRAMMING MENU

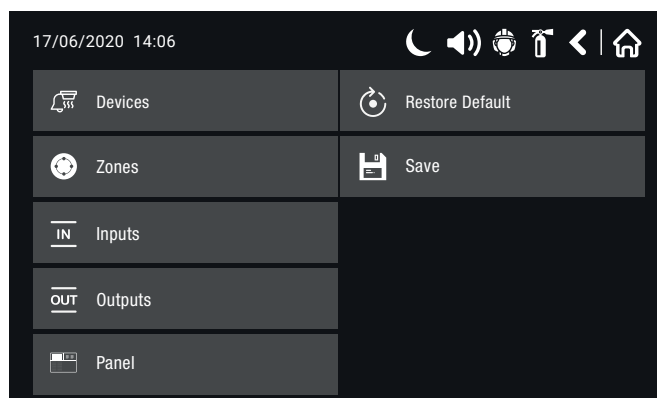
Programming for fire alarm panel 41CPE118 can be accessed from level 3.

Select the SYSTEM button. On the next screen, the Installer / User can choose the type of procedure to perform:

1. Program system parameters - Programming menu.
2. View or enable various parameters for system maintenance - Maintenance menu.



To access the Programming menu, the installer / user should select System - Programming in sequence.



On the left-hand side of the menu there are buttons used to access parameter programming submenus for Devices, Zones, Inputs, Outputs and Panel.

To enter the desired programming menu, press the corresponding button.

The **RESTORE DEFAULT** can be used to restore all the factory settings, while the **SAVE** button saves the panel configuration (boards, additional modules installed).

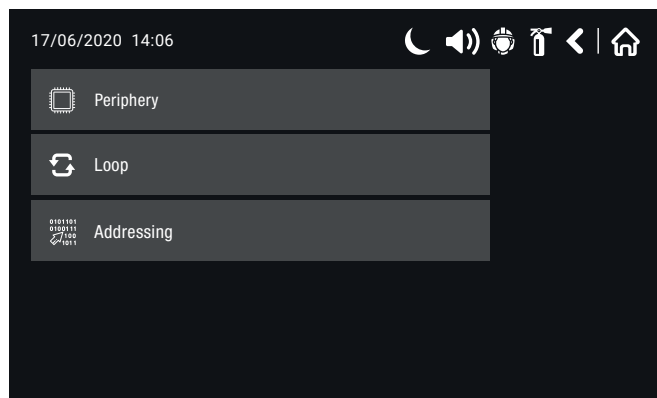
4.3 DEVICES

Fire panel 41CPE118 supports periphery and loop devices.

All “functional modules” connected to the panel configuration (power supply unit, loop expansion...) are called Periphery Devices, and have special programming and settings. The main motherboard is not a periphery device.

All addressable devices connected to the Loop expansions are called Loop Devices.

On pressing “Devices”, the user / installer enters the menu used to select the device type:



4.3.1 PERIPHERY DEVICES

The “Periphery” buttons is used to access the submenu for selecting and setting the parameters for the periphery devices in the panel configuration.

The panel supports up to 10 periphery units:

- **PSU** (Main power supply unit)
- **OUT** (Module with 4 monitored outputs, 4 relay outputs and 4 monitored inputs)
- **LOOP** (First Loop expansion)
- **EMPTY** (If there are no peripherals at the current address)

Physical periphery device address

The panel can work with up to 10 periphery devices, addressed from 1 to 10. The main power supply unit always acquires address 1, then the output module is addressed (address 2) and then, in an automatic progressive sequence from the first free address, the loop expansions are addressed.

The address of the next / previous device can be viewed by pressing the navigation buttons:



4.3.1.1 Current device status

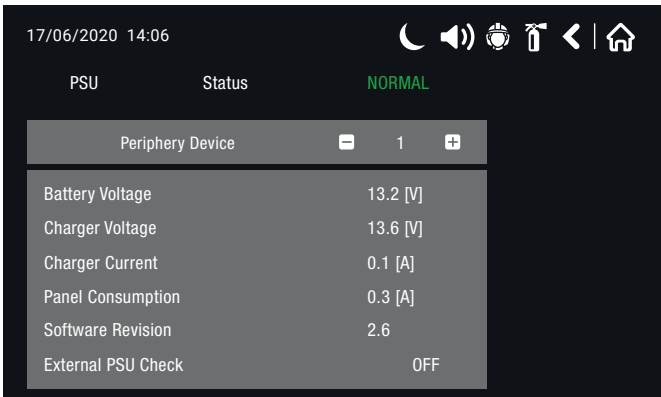
The operating status of the device can be:

- **NEW:** the device is new to the system. It needs to be saved. The main motherboard recognises the physical presence of a device that is not included in the system configuration. The new device must be added to the system configuration in order to communicate with the panel, receive alarm or fault messages, enable and receive indications, etc. The new device can be added to the system configuration by pressing **SAVE**.
Note: the device is called **NEW** in two cases:
 1. A device has been physically added to the hardware configuration of the system. Use the “**SAVE**” button (e.g. when a Loop expansion is added to the system configuration).
 2. A device has been removed from the system configuration (“**REMOVE**” button), but is still listed in the hardware configuration (it has not physically been removed). The panel will recognise that the device is present, even if it is not part of the system configuration, therefore the device will be “**NEW**” to the panel.
- **NORMAL:** the device is working properly.
- **FAULT:** the device is not responding. The panel regularly communicates with the periphery devices to receive information regarding their current status and for self-diagnostics purposes. If there is no communication between the panel and a periphery device, the device is considered to be in Fault condition. This indication may also occur if a periphery device is removed from the hardware configuration (uninstalled) without having first been removed from the system configuration (software). For this reason, when a periphery device is physically removed, it must **ALWAYS** be removed from the programming using the “**REMOVE**” button.
Note: periphery device fault message receipt is displayed with a 60-70 sec. delay.
- **TYPE ERROR:** - a device, other than the one saved, has been detected at the same address. To change the type, it must first be removed from the system configuration (use the “**REMOVE**” button) and then wait for the system to detect and announce the new periphery device found. Save the new device type using the “**SAVE**” button. The “**FIX**” button can also be used to change the periphery type quickly.

4.3.1.2 Adding a new periphery device to the configuration

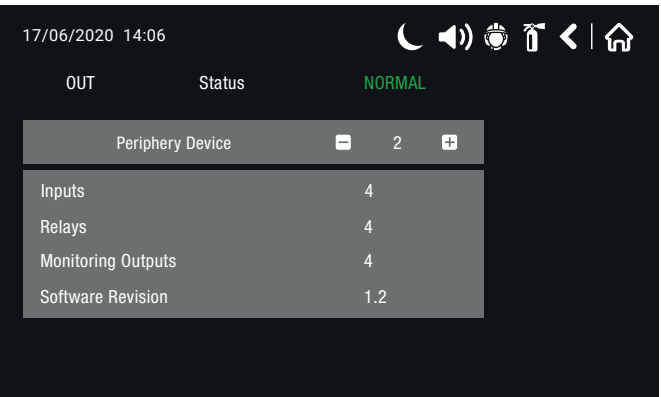
When a new periphery device (not in the configuration) is detected, the following message will appear: “**NEW PERIPHERY DEVICES FOUND**”, along with the number of devices detected. Press **SAVE**

to add the new periphery devices to the panel configuration. If a device does not respond, you can remove it by pressing **REMOVE**.



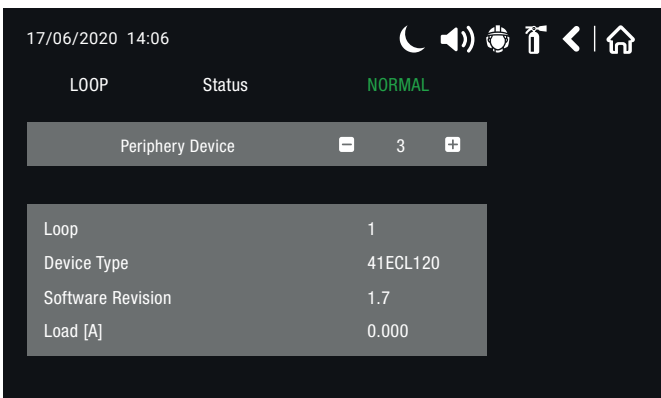
PSU		Status	NORMAL
Periphery Device		1	
Battery Voltage	13.2 [V]		
Charger Voltage	13.6 [V]		
Charger Current	0.1 [A]		
Panel Consumption	0.3 [A]		
Software Revision	2.6		
External PSU Check	OFF		

PSU parameters



OUT		Status	NORMAL
Periphery Device		2	
Inputs	4		
Relays	4		
Monitoring Outputs	4		
Software Revision	1.2		

OUT (module with 4 inputs + module with 4 monitored outputs + expansion module with 4 relays)



LOOP		Status	NORMAL
Periphery Device		3	
Loop	1		
Device Type	41ECL120		
Software Revision	1.7		
Load [A]	0.000		

Example of adding a new periphery device
LOOP (41ECL120 Loop controller)

Note: after pressing **SAVE** it disappears from the screen and the device status changes from **NEW** to **NORMAL**.

4.3.2 LOOP DEVICES

To access the programming menu for the loop device parameters, from the “Devices” menu, press the “LOOP” button - Fig. Screen

Loop devices can be automatically addressed, meaning that the first device will acquire the lowest address.

When a new loop device is found (not in the configuration), the message “**NEW LOOP DEVICES FOUND**” will appear, as well as the number of devices detected.

To add a new device to the configuration, press APPLY in the device menu or, with the help of the general command, press SAVE in the Programming menu.

Any device that has not been added to the configuration cannot generate messages.

If a loop device is removed, the panel generates a “**LOOP DEVICE FAULT**” message. When a newly detected device is removed, the panel reduces the number of new devices found and, if the number is 0 the message “NEW LOOP DEVICES FOUND” will be removed.

Removal of the device from the configuration takes place via the REMOVE command in the specific device menu.

If there are devices with the same address, the panel will show the message “**DOUBLE ADDRESS**”, indicating the number of the loop and the device with the problem.

To identify the devices with double addresses, select the number of the loop and the double address in sequence. At the bottom of the screen, press **LED**: the LEDs for all devices registered with this address will light up. This ensures all devices with the same address are identified and corrected with a new one quickly. The next time the LED button is pressed, the LEDs for the devices will switch off.

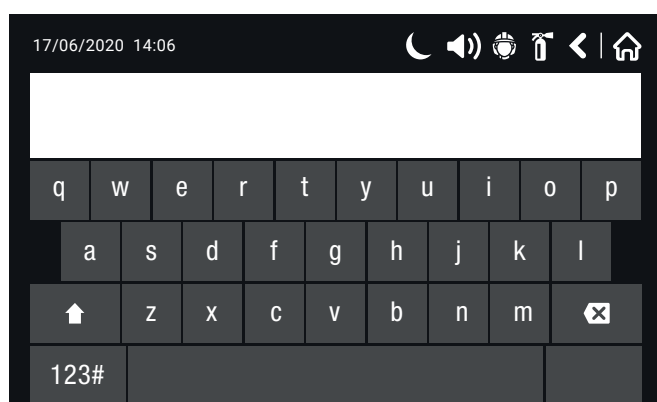
If a different type of device appears at the address of a device that has already been saved, the panel will generate the message “**LOOP DEVICE TYPE ERROR**”.

To correct the error, the incorrect address must first be removed and then the new device type saved.

The board for Loop 41ECL120 automatically recognises the type of device connected to the loop.

Every device is recognised by the panel with its own product code and a short description of the sensor type. The installer can set a specific name for each device based on requirements, or its position within the system.

To enter the device name, press the active button “Name” located underneath the device code. Enter the name using the keypad and press save; the text entered should be no longer than 40 characters (spaces included).

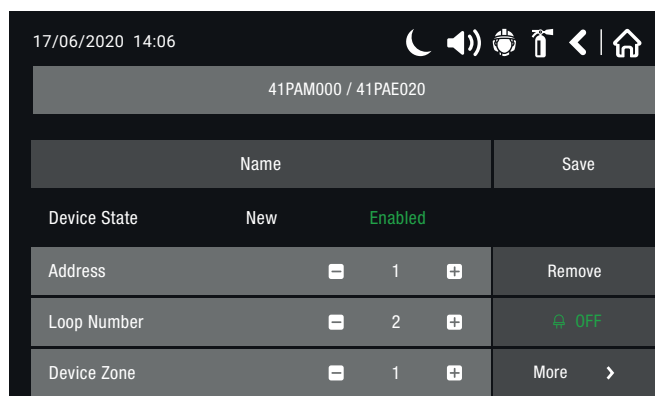


The installer / user can select the type of text, with the Cyrillic or Latin alphabet. The keypad buttons have the following meanings:

Button	Function
Cyr	Switch to Cyrillic alphabet
SPE	View special characters
Lat	Switch to Latin alphabet
Sym	View symbol characters
A/a	Switch between upper case and lower case
Num	Switch to number characters
␣	Space
←	Backspace key
↵	Confirm key

For information regarding Comelit device models, see Appendix B - Device models.

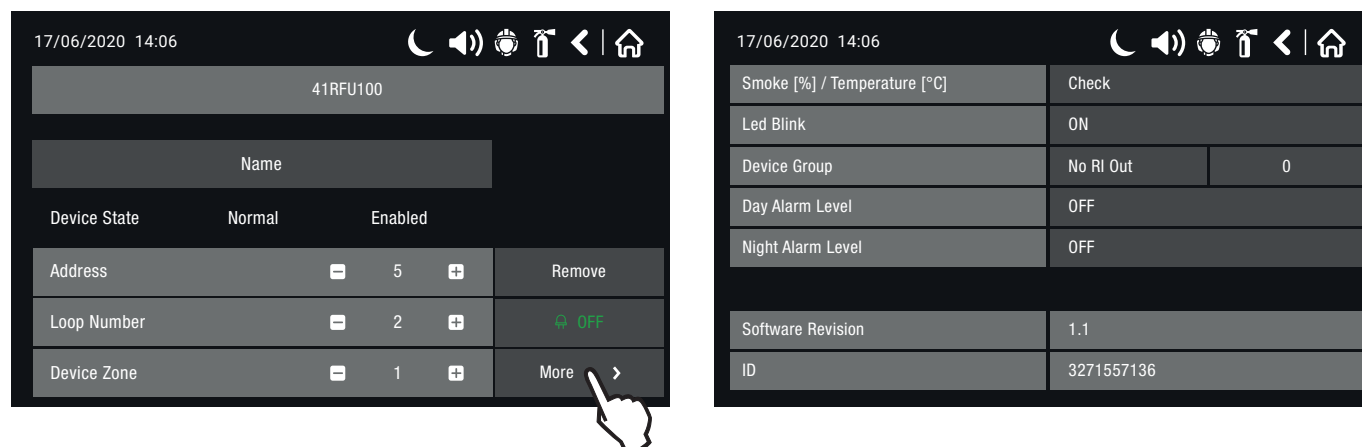
The figure shows the general view of the submenu for “new loop devices” (in the example, manual button 41PAM000).



Description of the functions for buttons common to all devices (Fig. Screen 9):

- **Save** – Button for applying changes made to device parameters.
- **Fix/Select type** – The button becomes active when the panel recognises a different type of device to the one saved previously.
- **Enabled / Disabled** – Button used to enable or disable a device (green for device enabled / yellow for device disabled); CAUTION! When a loop device is disabled, the warning message “Loop Device Disabled” appears. Enabled devices are not monitored by the panel. Sensor disabling is NOT reset after a panel reset, but only when the sensor is re-enabled.
- **Remove** – Button for removing the device from the system configuration.
- **LED symbol on/off** – Button for switching on the LED on the sensors (green for on / red for off); this is useful for identifying an individual sensor or when searching for double addresses. On exiting the menu, the LED switches off automatically. Note: Sounders Art. 41SAI000 and 41SAB100 do not have an LED; they can be identified by enabling audible indications. Mini module Art. 41IOM010 does not have LEDs or audible indications.
- **More** – Button for showing additional device settings; these vary according to the device type. Fields common to all devices are:
 - ◊ **LED Blink** – Button for enabling or disabling LED blinking which indicates communication between the panel and the device; when the status is set to ON, the device LED begins to flash every 10 seconds in normal operating mode. Note: devices 41IOM010, 41SAI000 and 41SAB100 do not have LED indications to show communication with the panel.
 - ◊ **ID** – This field shows the 10-digit “ID” used to identify the device within the system.
 - ◊ **Software Revision** – This field shows the software revision of the device.
- **Name** – If this is pressed, the keypad screen used to enter the device name opens.
- **Address (- / +)** – Buttons for scrolling within the same loop; pressing the number of the current device allows direct entry of the device number to search for.
- **Loop Number (- / +)** – Buttons used to select the number of the loop to which the device should belong; pressing the number of the loop allows direct entry of the desired number.
- **Device Zone (- / +)** – Buttons used to select the number of the zone to which the device should belong; pressing the number of the current zone allows direct entry of the desired number.
- **Device State** – Shows the current status of the device, as listed below:
 - ◊ **NEW (blue)** - the device is new to the system. It should be saved using the “**Save**” button.
 - ◊ **NORMAL (green)** - the device is working normally.
 - ◊ **FAULT (yellow)** - the device is not responding. It can be deleted by pressing “**Remove**”.
 - ◊ **TYPE ERROR** - a different type of device to the one saved previously has been identified.
 - ◊ **NONE** – no device has been associated with the address.

41RFU100 – Optical smoke detector with isolator



The figure shows the settings screen for addressed detector 41RFU100.

Press “MORE” to access additional settings:

- **Smoke [%] / Temperature [°C]:** press “Check” to access the parameter viewing screen:
 - ◊ **Smoke:** shows the percentage of the current level of smoke in the optical chamber of the detector.
 - ◊ **Sensor contamination level:** shows the percentage of the current level of contamination in the optical chamber of the detector.
- **LED Blink:** select ON/OFF to enable/disable LED indications for the device.
- **Device Group:** setting for linking a detector to a detector group. Enter a group number (>0) in the editable field; the detector in question will be assigned to that specific group. This enables the button allowing that detector to activate any remote light Art. 48FPT100 connected to any detector belonging to the SAME group.
- **Day Alarm level*:** setting for the sensitivity level in Day mode.
- **Night Alarm level*:** setting for the sensitivity level in Night mode.

* **Note:** there are 4 levels for setting the alarm sensitivity level: High, Normal, Middle and Low. To change the sensitivity level, press the active button next to the field and choose a new level from the list.

* **Note:** in normal panel operating conditions, an asterisk appears next to the Alarm Level to identify the current operating mode (day / night) of the fire panel (this can be changed via the maintenance menu).

To save any new parameters, press “Save” on the main device screen.

41RCS100 – Heat detector with isolator

17/06/2020 14:06

41RCS100

Name Save

Device State New Enabled

Address 4 Remove

Loop Number 2 OFF

Device Zone 1 More >

17/06/2020 14:06

Smoke [%] / Temperature [°C]	Check	
Led Blink	ON	
Device Group	No RI Out	0
Day Alarm Level	A1R	
Night Alarm Level	A1R	
Software Revision	1.0	
ID	2868099610	

The figure shows the settings screen for addressed detector 41RCS100.

Press “MORE” to access additional settings:

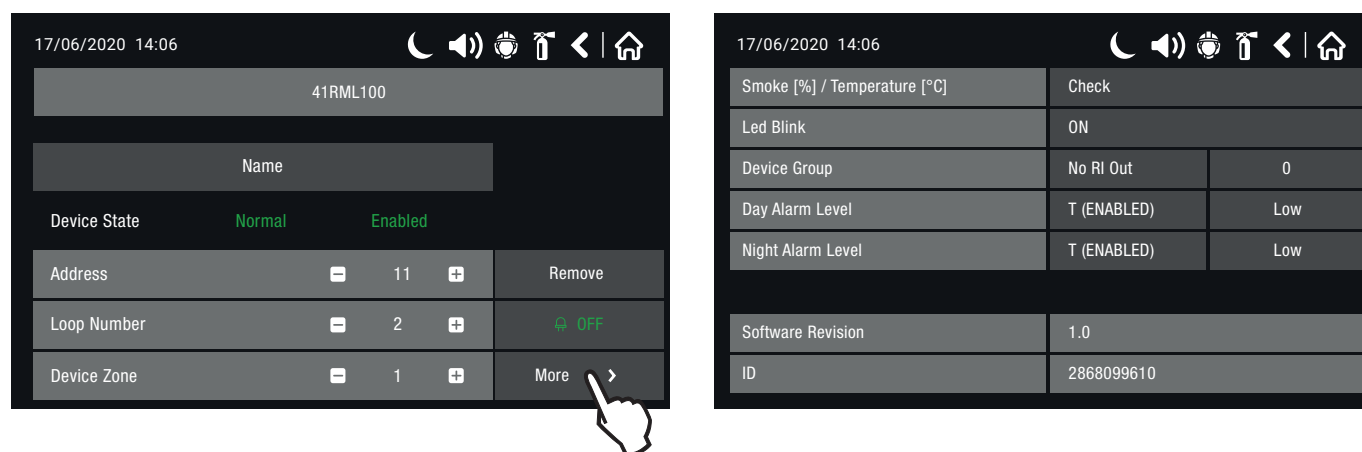
- **Smoke [%] / Temperature [°C]:** press “Check” to access the parameter viewing screen:
 - ◊ Alarm threshold (°C): view the detector activation temperature, in degrees Centigrade.
 - ◊ Temperature (°C): view the current temperature of the room, in degrees Centigrade.
- **LED Blink:** select ON/OFF to enable/disable LED indications for the device.
- **Device Group:** setting for linking a detector to a detector group. Enter a group number (>0) in the editable field; the detector in question will be assigned to that specific group. This enables the button allowing that detector to activate any remote light Art. 48FPT100 connected to any detector belonging to the SAME group.
- **Day Class temperature*:** set the temperature class of the detector in Day Mode.
- **Night Class temperature*:** set the temperature class of the detector in Night Mode.

***Note:** There are 3 temperature classes of detector operation: A1R (58°, RoR), A2S (60°), BS (75°). To change the class, simply press the active button next to the field and choose a new level from the list. N.B.: Heat detector 41RCS100 is certified for both class A1R and class A2S.

*** Note:** in normal panel operating conditions, an asterisk appears next to the Alarm Level to identify the current operating mode (day / night) of the fire panel (this can be changed via the maintenance menu).

To save any new parameters, press “Save” on the main device screen.

41RML100 – Combined smoke / heat detector with isolator



The figure shows the settings screen for addressed detector 41RML100.

Press “MORE” to access additional settings:

- **Smoke [%] / Temperature [°C]:** press “Check” to access the parameter viewing screen:
 - ◊ **Smoke:** shows the percentage of the current level of smoke in the optical chamber of the detector.
 - ◊ **Sensor contamination level:** shows the percentage of the current level of contamination in the optical chamber of the detector.
 - ◊ **Alarm threshold (°C):** view the detector activation temperature, in degrees Centigrade.
 - ◊ **Temperature (°C):** view the current temperature of the room, in degrees Centigrade.
- **LED Blink:** select ON/OFF to enable/disable LED indications for the device.
- **Device Group:** setting for linking a detector to a detector group. Enter a group number (>0) in the editable field; the detector in question will be assigned to that specific group. This enables the button allowing that detector to activate any remote light Art. 48FPT100 connected to any detector belonging to the SAME group.
- **Day Alarm level*:** sets the degree of sensitivity for the optical part of the detector in Day Mode. Press the dedicated button to enable / disable the thermal part.
 - ◊ **Sensitivity Level:** there are 4 levels for setting the alarm sensitivity level: High, Normal, Middle and Low. To change the sensitivity level, press the active button next to the field and choose a new level from the list.
 - ◊ **Thermal part:** for this device only, the installer can enable or disable the thermal part of the detector, by pressing the dedicated button (T/ENABLED – T/DISABLED).

The temperature class of the 41RML100 detector is set as **A1R (58°, RoR)** and cannot be changed.

- **Night Alarm level*:** sets the degree of sensitivity for the optical part of the detector in Night Mode. Press the dedicated button to enable / disable the thermal part.

The settings for the alarm level and thermal part are the same as listed above for the “Day Alarm Level”.

Caution: the optical part and the thermal part of the detector cannot both be disabled at the same time!

* **Note:** in normal panel operating conditions, an asterisk appears next to the Alarm Level to identify the current operating mode (day / night) of the fire panel (this can be changed via the maintenance menu).

To save any new parameters, press “Save” on the main device screen.

41PAM000 – Manual button with isolator (internal use)**41PAE020 – IP67 manual button with isolator (external use)**

17/06/2020 14:06

41PAM000 / 41PAE020

Name Save

Device State New Enabled

Address 1 Remove

Loop Number 2 OFF

Device Zone 1 More >

17/06/2020 14:06

Led Blink ON

Event EVACUATE

Software Revision 2.0

ID 2793417600

The figure shows the settings screen for addressed buttons 41PAM000 / 41PAE020.

Press “MORE” to access additional settings:

- **LED Blink:** select ON/OFF to enable/disable LED indications for the device.
- **Event:** Press the button next to the field to change the type of event generated by pressing the manual button (41PAM000 / 41PAE020), specifically:
 - ◊ **Evacuate** – After pressing the flexible element of the button, the sounders are activated immediately, as the set delay times T1 and T2 are ignored.
 - ◊ **Alarm** - After pressing the flexible element of the button, time delays T1 and T2 (if set) are active and the manual button functions as an automatic detector.

To save any new parameters, press “Save” on the main device screen.

41SAI000 – Sounder with isolator

17/06/2020 14:06

41SAI000

Name

Device State Normal Enabled

Address 12 Remove

Loop Number 2 OFF

Device Zone 1 More >

17/06/2020 14:06

Sound Level High

Sounder Group 0

Software Revision 2.0

ID 3061843155

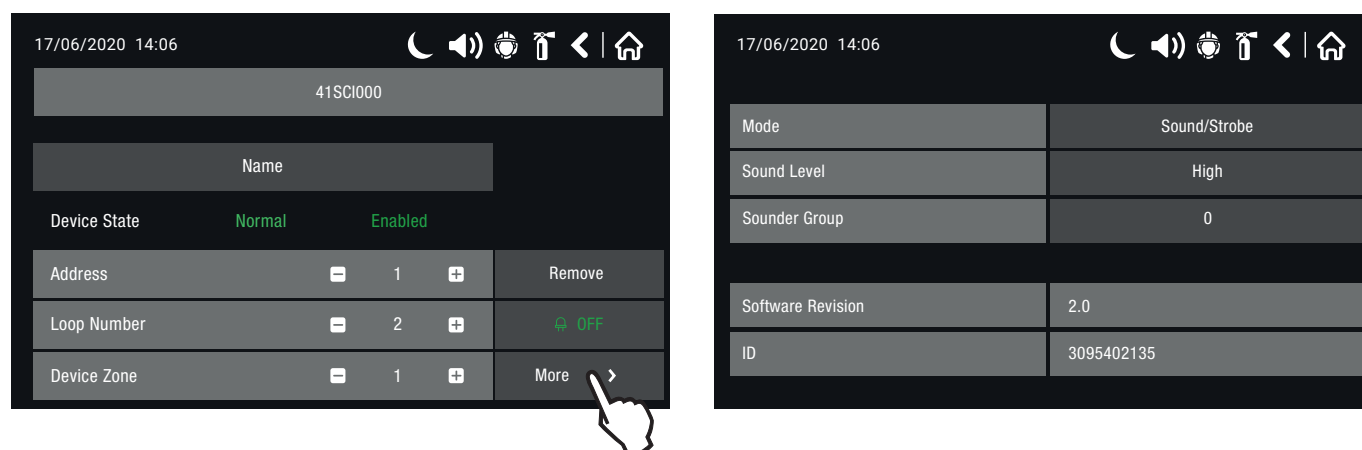
The figure shows the settings screen for addressed sounder 41SAI000.

Press “MORE” to access additional settings:

- **Sound Level:** on pressing the button, the sound level alternates between HIGH and LOW - this setting can be determined by the total number of sounders connected to the Loop:
 - ◊ **High** - Set for cases in which the number of sounders connected to a single Loop is ≤ 30 .
 - ◊ **Low** - Set for cases in which the number of sounders connected to a single Loop is between 30 and 60.
- **Sounder Group:** each addressed sounder can belong to a Sounder Group. In the event of a zone alarm, in addition to the sounders belonging to that zone, the sounder groups associated with that zone will also be activated.

To save any new parameters, press “Save” on the main device screen.

41SCI000 – Sounder with strobe and isolator



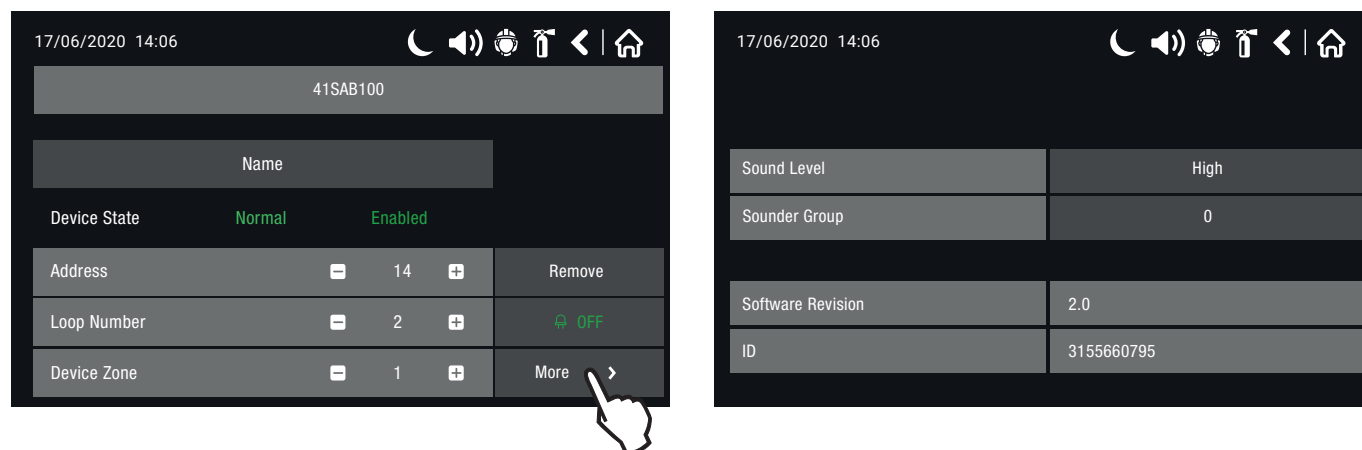
The figure shows the settings screen for addressed sounder 41SCI000.

Press “MORE” to access additional settings:

- **Mode:** press the button to change the sounder operating mode; choose between:
 - ◊ **Strobe lamp.** - in the event of activation, only the visual part of the sounder is enabled
 - ◊ **Sounder** - in the event of activation, only the audible part of the sounder is enabled
 - ◊ **Sound/Strobe** - in the event of activation, both visual and audible parts of the sounder are enabled
- **Sound Level:** on pressing the button, the sound level alternates between HIGH and LOW - this setting can be determined by the total number of sounders connected to the Loop:
 - ◊ High - Set for cases in which the number of sounders connected to a single Loop is ≤ 30 .
 - ◊ Low - Set for cases in which the number of sounders connected to a single Loop is between 30 and 60.
- **Sounder Group:** each addressed sounder can belong to a Sounder Group. In the event of a zone alarm, in addition to the sounders belonging to that zone, the sounder groups associated with that zone will also be activated.

To save any new parameters, press “Save” on the main device screen.

41SAB100 – Base with built-in sounder and isolator



The figure shows the settings screen for the base with addressed sounder 41SAB100.

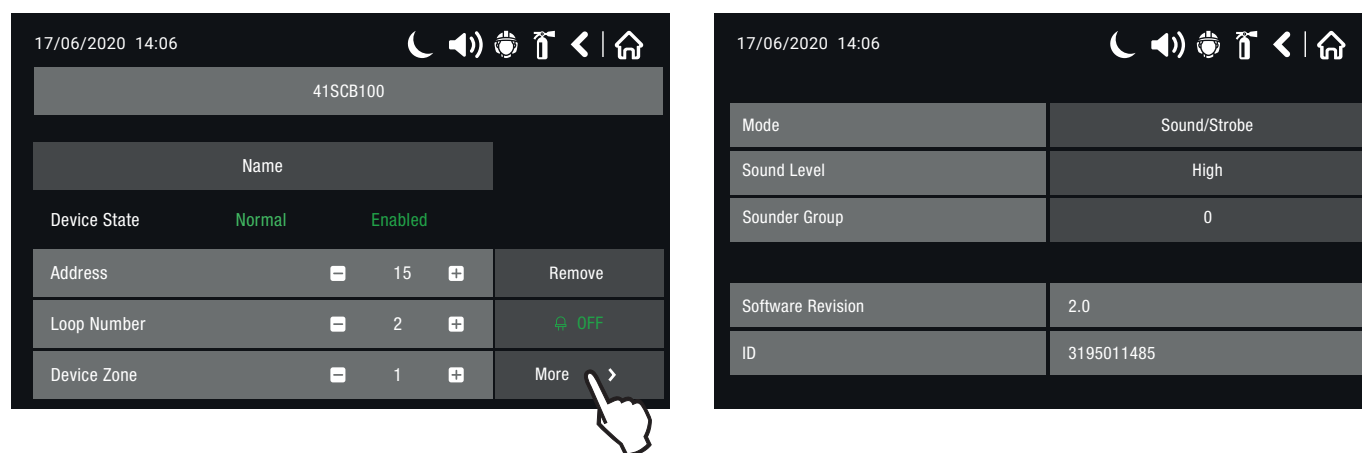
Press “MORE” to access additional settings:

- **Sound Level:** on pressing the button, the sound level alternates between HIGH and LOW - this setting can be determined by the total number of sounders connected to the Loop:
 - ◊ High - Set for cases in which the number of sounders connected to a single Loop is ≤ 30 .
 - ◊ Low - Set for cases in which the number of sounders connected to a single Loop is between 30 and 100.
- **Sounder Group:** each addressed sounder can belong to a Sounder Group. In the event of a zone alarm, in addition to the sounders belonging to that zone, the sounder groups associated with that zone will also be activated.

To save any new parameters, press “Save” on the main device screen.

Note: the detectors mounted on bases 41SAB100 and 41SCB100 will be assigned another address which is NOT the same as the base.

41SCB100 – Base with built-in sounder and strobe and isolator



The figure shows the settings screen for addressed sounder/strobe 41SCB100.

Press “MORE” to access additional settings:

- **Mode:** press the button to change the sounder operating mode; choose between:
 - ◊ Strobe lamp - in the event of activation, only the visual part of the sounder is enabled
 - ◊ Sounder – in the event of activation, only the audible part of the sounder is enabled
 - ◊ Sound/Strobe – in the event of activation, both visual and audible parts of the sounder are enabled
- **Sound Level:** on pressing the button, the sound level alternates between HIGH and LOW - this setting can be determined by the total number of sounders connected to the Loop:
 - ◊ High - Set for cases in which the number of sounders connected to a single Loop is ≤ 30 .
 - ◊ Low - Set for cases in which the number of sounders connected to a single Loop is between 30 and 100.
- **Sounder Group:** each addressed Comelit sounder can belong to a Sounder Group. In the event of a zone alarm, in addition to the sounders belonging to that zone, the sounder groups associated with that zone will also be activated.

To save any new parameters, press “Save” on the main device screen.

Note: the detectors mounted on bases 41SAB100 and 41SCB100 will be assigned another address which is NOT the same as the base.



CAUTION: disabling sounders is not compliant with standard EN54-2!

If a sounder is disabled, a warning message will appear on the screen.

Disabling a base with sounder (models 41SAB100 and 41SCB100) will not affect operation of the addressed detector mounted on it.

To calculate the total consumption of the sounders in the loop and their sound level, use the table below, entering the number of sounders used and calculating their total consumption.

Table 1

Calculation of the total consumption of the sounders in the loop:

Sounder	Number	High Volume	Low Volume	Maximum Consumption, mA (High + Low)
41SAI000		_____ x 10 mA	_____ x 4 mA	
41SCI000*		_____ x 16.5 mA	_____ x 11 mA	
41SAB100		_____ x 10 mA	_____ x 3 mA	
41SCB100		_____ x 10 mA	_____ x 3 mA	
Total consumption of the sounders in the loop:				

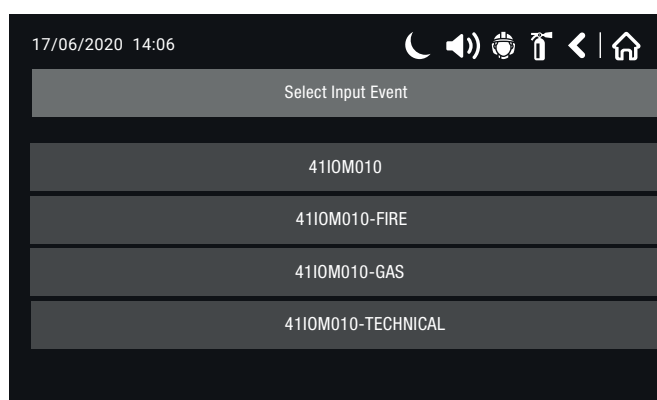
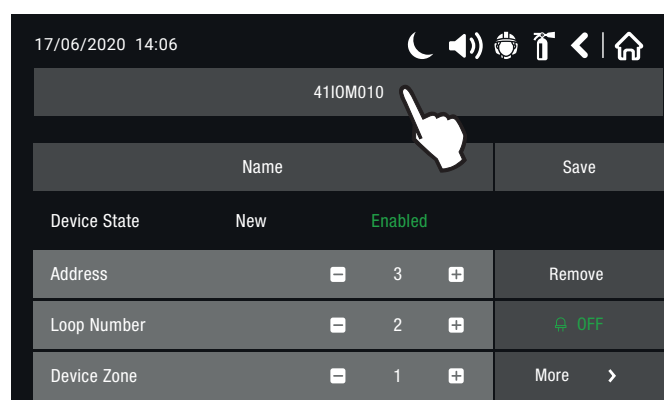
Table 2

Calculation of the total consumption of the sounders in the loop with set tone type no. 27:

Sounder	Number	High Volume	Low Volume	Maximum Consumption, mA (High + Low)
41SAI000		_____ x 16.5 mA	_____ x 5 mA	
41SCI000		_____ x 22 mA	_____ x 12 mA	
41SAB100		_____ x 10 mA	_____ x 3 mA	
41SCB100		_____ x 10 mA	_____ x 3 mA	
Total consumption of the sounders in the loop:				

*** NOTE: Sounder / Strobe operating mode (visual and audible parts are enabled in the event of a fire alarm). Consumption for other operating modes is indicated in the individual installation manuals for each sounder.**

41IOM010 – Mini module with 1 monitored input



The figure shows the settings screen for module 41IOM010.

The module monitors and transmits the input status (ON status, OFF, status) to the panel.

When the button showing the module model (figure 10 h) is pressed, the panel shows a list of options from which to select the type of message or pre-set action, which is communicated to the panel in the event of its activation:

- **41IOM010 Mini module 1 IN:** no “rapid activation” is associated with the input and it can be used in fire panel programming logics (virtual inputs / outputs);
- **41IOM010 Fire Alarm*:** if activated, the module functions as a fire detector and generates a “FIRE ALARM” event to the panel;
- **41IOM010 GAS Alarm:** if activated, the module generates an indication (Gas alarm) on the panel display, useful for interfacing between conventional gas detectors;
- **41IOM010 Technical Alarm:** if activated, the module generates an indication (Technical alarm warning) on the panel display.

* Does not conform to EN54-2

After selecting the type of message / event, press “Save”.

Note: If the setting GAS Alarm or Technical Alarm warning has been selected and saved, pressing MORE in the module menu will allow you to select whether to Enable or Disable sounder activation when one of these 2 events occurs, by pressing the button next to the Alarm field.

If there is a fault on the input, it will be partially displayed in the MORE module menu, in the CHANNEL 1 field; faults may be:

- **Open** - The line connected to the input is open, or the double balance resistors are not connected properly on the device side.
- **Short** - There is a short-circuit in the line connected to the input.

If there are no faults, the following may appear:

- **OFF** – the module is present and the input is not enabled.
- **ON** – the module is present and its input has been enabled.

17/06/2020 14:06

41IOM010-GAS

Name Save

Device State New Enabled

Address 3 Remove

Loop Number 2 OFF

Device Zone 1 More >



17/06/2020 14:06

Alarm Enabled

Channel 1 OFF

ID 2827027013

To save any new parameters, press “Save” on the main device screen.

41IOM022 – Module with 2 monitored inputs + 2 relay outputs with isolator

17/06/2020 14:06

41IOM022

Name Save

Device State New Enabled

Address 3 Remove

Loop Number 2 OFF

Device Zone 1 More >



17/06/2020 14:06

Sounder Group 0

Led Blink ON

Software Revision 2.0

ID 3195011485

The figure shows the settings screen for module 41IOM022.

This module can be used to check its 2 built-in monitored inputs and to control 2 relay outputs.

For further technical information, plus module and input/output line wiring, please refer to the technical manual for this device.

Note: The fire panel recognises “Input 1 as Channel 1”, “Input 2 as Channel 2”, “Output 1 as Channel 3” and “Output 2 as Channel 4”.

Press “MORE” to access additional settings:

- **LED Blink:** select ON/OFF to enable/disable LED indications for the device.
If ON, the LED flashes at every panel dialogue cycle; if OFF, the LED does not flash during the dialogue cycle.

If there is a fault on an input, the field CHANNEL 1 and/or CHANNEL 2 will appear in the MORE menu; faults may be:

- **Open** - The line connected to the input is open, or the double balance resistors are not connected properly on the device side.
- **Short** - There is a short-circuit in the line connected to the input.

If there are no faults, the following may appear:

- **ON** – the module is present and its input has been enabled.
- **No view** – the module is present and the input is not enabled.

The input or output channel configuration may be programmed via “rapid activation” by directly pressing the button showing the module model.

17/06/2020 14:06

4110M022

Name Save

Device State New Enabled

Address	-	3	+	Remove
Loop Number	-	2	+	OFF
Device Zone	-	1	+	More >

17/06/2020 14:06

Channel 1	Input	Name
Channel 2	Input	Name
Channel 3	Output	Name
Channel 4	Output	Name

To enter the input or output activation type, press the button alongside the Channel with the corresponding number and select one of the options. A name of up to 40 characters can be assigned to each channel in the editable bar next to the “Name” label”.

INPUT CHANNEL rapid programming:

- **Input:** no “rapid activation” is associated with the input and it can be used in fire panel programming logics (virtual inputs / outputs);
- **Alarm*:** if activated, the module functions as a fire detector and generates a “FIRE ALARM” event to the panel;
- **Evacuate*:** if activated, it generates an “EVACUATE” event to the panel;
- **GAS Alarm:** if activated, the module generates an indication (Gas alarm) on the panel display, useful for interfacing between conventional gas detectors;
- **Technical Alarm:** if activated, the module generates an indication (Technical alarm warning) on the panel display.

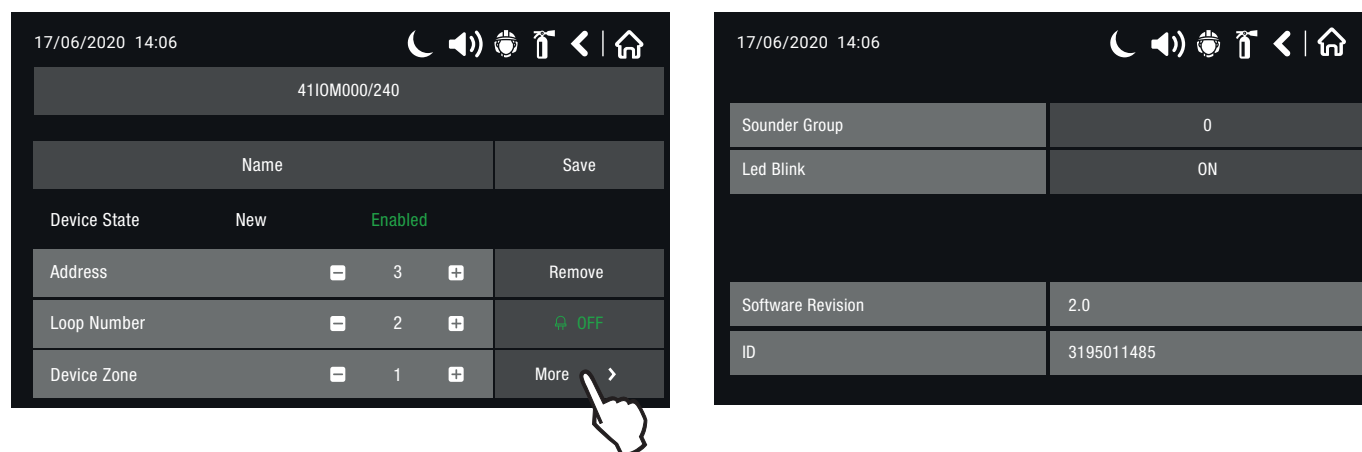
* Does not conform to EN54-2

OUTPUT CHANNEL rapid programming:

- **Output:** no “rapid activation” is associated with the output and it can be used in fire panel programming logics (virtual inputs / outputs);
- **Alarm:** if a Common fire alarm event occurs the output is enabled.
- **Evacuate:** if an Evacuate alarm event occurs the output is enabled.
- **Reset:** in the event of a Reset action the output is enabled for a pre-set time.
- **Sounders Mode:** if a Loop sounder activation event occurs the output is enabled.

To save any new parameters, press “Save” on the main device screen.

41IOM122 – Module with 2 monitored inputs + 2 monitored (or relay) outputs with isolator



The figure shows the settings screen for module 41IOM122.

This module can be used to check its 2 built-in monitored inputs and to control 2 outputs (monitored or relay) used for controlling and monitoring audiovisual devices, electromagnetic catches, etc.

For further technical information, plus module and input/output line wiring, please refer to the technical manual for this device.

Note: The fire panel recognises “Input 1 as Channel 1”, “Input 2 as Channel 2”, “Output 1 as Channel 3” and “Output 2 as Channel 4”.

Each output can be programmed to work in “monitored” or “non-monitored” (relay) mode, depending on the settings for the jumpers on the module PCB:

- **Jumpers closed:** the outputs work in monitored mode (monitoring the output line).
- **Jumpers open:** the outputs work in relay mode (voltage-free contacts).

When an output is set to work in monitored mode, it should be powered by an external power supply unit (18-30 VDC).

Note: During jumper opening / closure procedures, ALWAYS cut off the power supply originating from the Loop and the power supply for the outputs. This will avoid fault indications on the outputs.

Press “MORE” to access additional settings:

- **LED Blink:** select ON/OFF to enable/disable LED indications for the device.
If ON, the LED flashes at every panel dialogue cycle; if OFF, the LED does not flash during the dialogue cycle.

If there is a fault on an input, the following indications will appear next to the field CHANNEL 1 and/or CHANNEL 2 in the MORE menu:

- **Open** - The line connected to the input is open, or the double balance resistors are not connected properly on the device side.
- **Short** - There is a short-circuit in the line connected to the input.

If there are no faults, the following may appear:

- **ON** – the module is present and the input has been enabled.
- **OFF** – the module is present and the input is not enabled.

The “MORE” menu can also be used to view the status of output channels CHANNEL 3 and CHANNEL 4.

There are two fields next to the channel label; the first lists output operating mode indications (monitored or relay) or a fault indication:

- Type Error - an incorrect output type has been detected, i.e. a jumper has been closed/opened while the module is powered. The fault will be reset when the module is disconnected from the Loop power supply and the output power supply is disabled.
 - Power Supply Fault: indicates a lack of external power supply at the outputs.
- The second indicates the current status of the outputs, which may be one of the following:
- ON – the output is enabled.
 - OFF – the output is not enabled.
 - Open - the line connected to the output is open, or the end-of-line resistor is not connected.
 - Short - there is a short-circuit in the line connected to the output. In the event of a short-circuit, when the monitored output is triggered, the output power supply will be disabled until normal operating conditions are restored.

The input or output channel configuration may be programmed via “rapid activation” by directly pressing the button showing the module model.

17/06/2020 14:06

41IOM000/240

Name

Save

Device State

New

Enabled

Address

-

3

+

Remove

Loop Number

-

2

+

OFF

Device Zone

-

1

+

More

17/06/2020 14:06

Channel 1

Input

Name

Channel 2

Input

Name

Channel 3

Output

Name

Channel 4

Output

Name

To enter the input or output activation type, press the button alongside the Channel with the corresponding number and select one of the options. A name of up to 40 characters can be assigned to each channel in the editable bar next to the “Name” label”.

The configurable “rapid programming” options on input and output channels are the same as those listed in the paragraph concerning addressed module 41IOM022.

To save any new parameters, press “Save” on the main device screen.

41IOM004 – Module with 4 relay outputs with isolator

17/06/2020 14:06

41IOM004

Name Save

Device State New Enabled

Address	- 3 +	Remove
Loop Number	- 2 +	OFF
Device Zone	- 1 +	More >

17/06/2020 14:06

Sounder Group	0
Led Blink	ON
Software Revision	2.0
ID	3195011485

The figure shows the settings screen for module 41IOM004.

This module can be used to control its 4 built-in relay outputs.

For further technical information and module and output wiring, please refer to the technical manual for this device.

Press “MORE” to access additional settings:

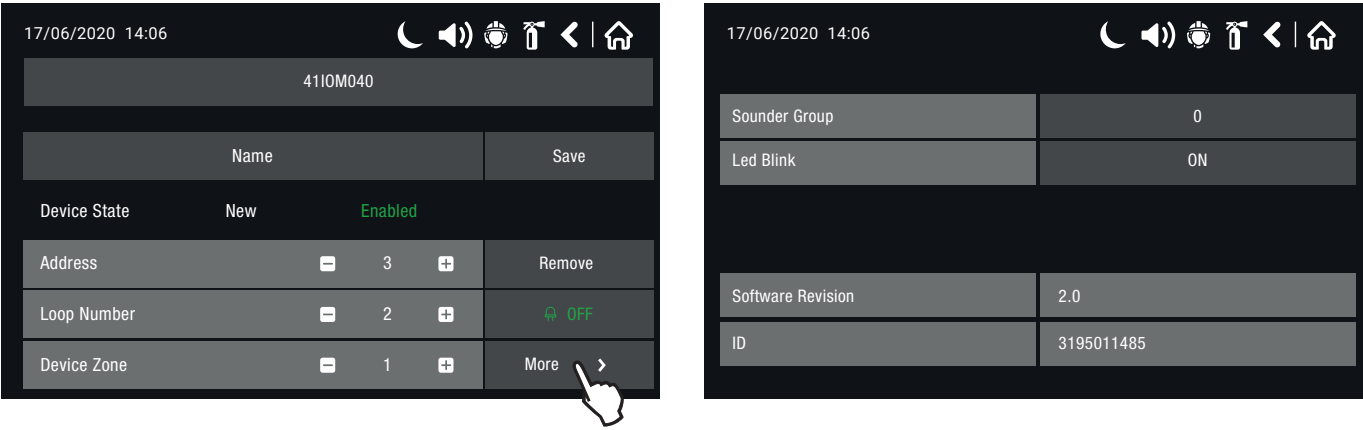
- LED Blink: select ON/OFF to enable/disable LED indications for the device.
If ON, the LED flashes at every panel dialogue cycle; if OFF, the LED does not flash during the dialogue cycle.

A name of up to 40 characters can be assigned to each output channel in the editable bar next to the “Name” label”.

The configurable “rapid programming” options on the 4 outputs of module 41IOM004 are the same as those listed in the paragraph concerning addressed module 41IOM022 (output channels).

To save any new parameters, press “Save” on the main device screen.

41IOM040 – Module with 4 monitored inputs with isolator



The figure shows the settings screen for module 41IOM040.

This module can be used to check its 4 built-in monitored inputs.
For further technical information and module and input line wiring, please refer to the technical manual for this device.

Press “MORE” to access additional settings:

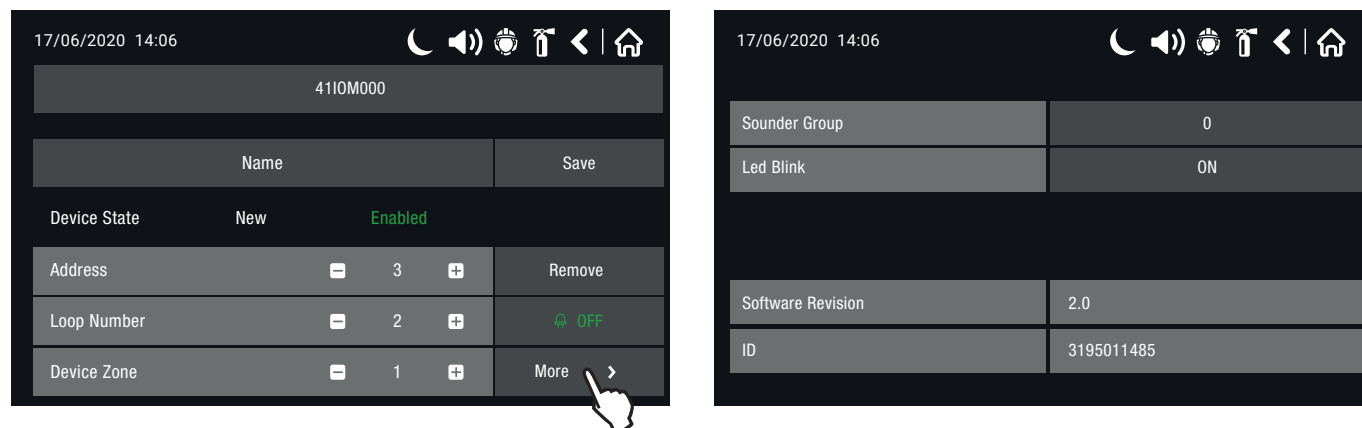
- **LED Blink:** select ON/OFF to enable/disable LED indications for the device.
If ON, the LED flashes at every panel dialogue cycle; if OFF, the LED does not flash during the dialogue cycle.

A name of up to 40 characters can be assigned to each input channel in the editable bar next to the “Name” label”.

Indications relating to the status of inputs on the “More” page, and the configurable “rapid programming” options on the 4 monitored inputs of module 41IOM040, are the same as those listed in the paragraph concerning addressed module 41IOM022 (input channels).

To save any new parameters, press “Save” on the main device screen.

41IOM000 – Module with 1 monitored output with isolator



The figure shows the settings screen for module 41IOM000.

This module can be used to control an output used for controlling and monitoring audiovisual devices, electromagnetic catches, etc.

For further technical information and module and output line wiring, please refer to the technical manual for this device.

Press “MORE” to access additional settings:

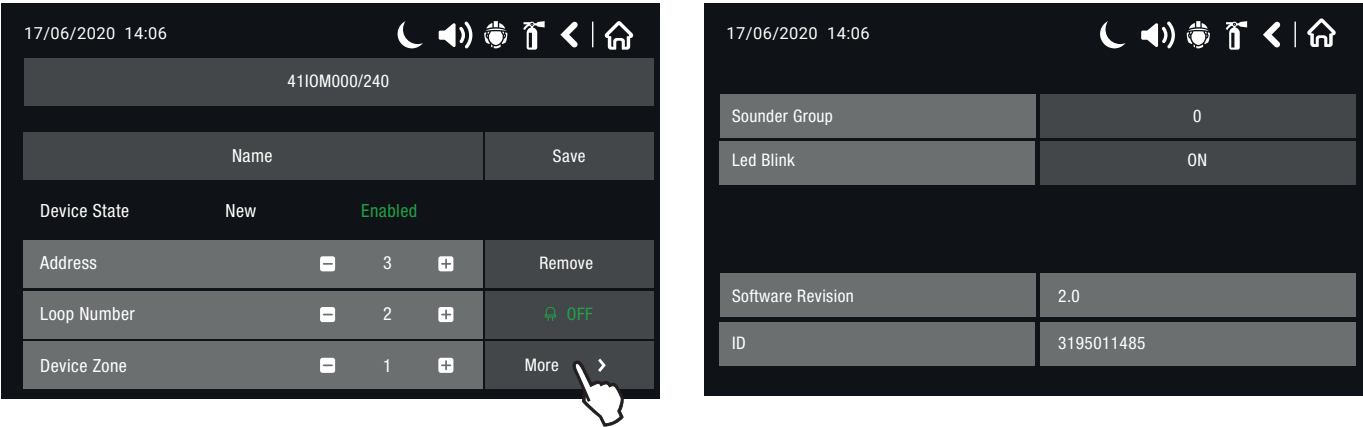
- LED Blink: select ON/OFF to enable/disable LED indications for the device.
If ON, the LED flashes at every panel dialogue cycle; if OFF, the LED does not flash during the dialogue cycle.

A name of up to 40 characters can be assigned to the output channel in the editable bar next to the “Name” label”.

Indications relating to the output status on the “More” page, and the configurable “rapid programming” options on the monitored output of module 41IOM000, are the same as those listed in the paragraph concerning addressed module 41IOM022 (input channels).

To save any new parameters, press “Save” on the main device screen.

41IOM000/240 – Module with 1 relay output (240 V) with isolator



The figure shows the settings screen for module 41IOM000/240.

This module can be used to control a relay output with voltage-free contact for the activation of devices with power supply voltage up to 250 VAC (5A) or 30 VDC (5A).

For further technical information and module and output line wiring, please refer to the technical manual for this device.

Press “MORE” to access additional settings:

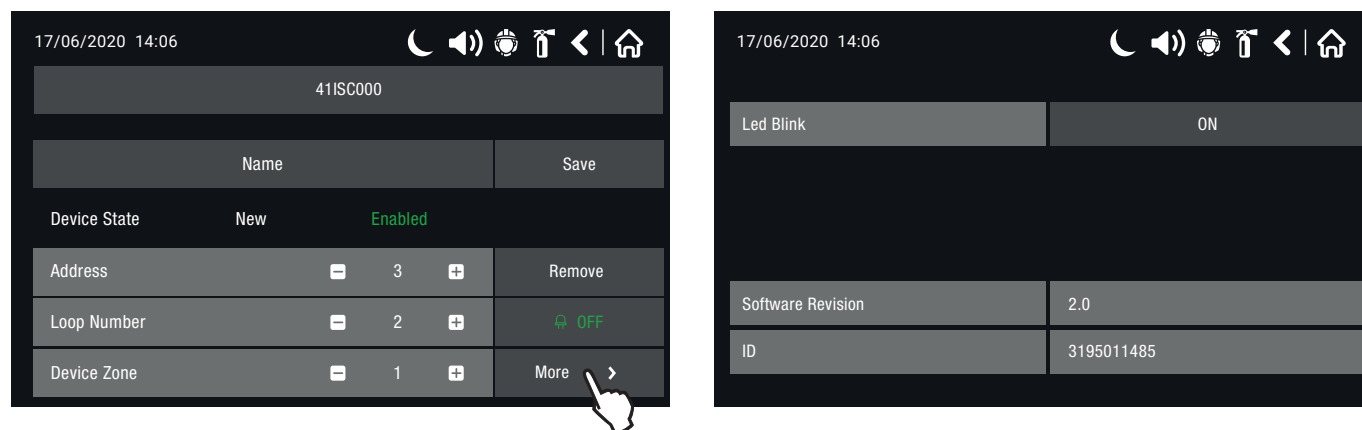
- LED Blink: select ON/OFF to enable/disable LED indications for the device.
If ON, the LED flashes at every panel dialogue cycle; if OFF, the LED does not flash during the dialogue cycle.

A name of up to 40 characters can be assigned to the output channel in the editable bar next to the “Name” label”.

The configurable “rapid programming” options on the output of module 41IOM000/240 are the same as those listed in the paragraph concerning addressed module 41IOM022 (output channels).

To save any new parameters, press “Save” on the main device screen.

41ISC000 – Module for conventional zone with isolator



The figure shows the settings screen for module 41ISC000.

This module allows a separately-powered conventional zone to interface with the addressed fire detection system. For further technical information and module wiring, please refer to the technical manual for this device.

Press “MORE” to access additional settings:

- **LED Blink:** select ON/OFF to enable/disable LED indications for the device.
If ON, the LED flashes at every panel dialogue cycle; if OFF, the LED does not flash during the dialogue cycle.

To save any new parameters, press “Save” on the main device screen.

4.3.3. Addressing devices

This menu allows the installer to set / edit the address of the device, to identify any unaddressed devices that are nevertheless connected to the Loop, and to perform a sequential addressing or automatic addressing procedure for all devices connected to the system.

The type of addressing depends on the installer's requirements and the system configuration.

The installer can adopt three approaches to add devices to the system configuration:

- The devices are connected directly to the panel via Loop board 41ECL120, and are already addressed (programming via manual programmer 41SPG000). The panel automatically recognises the devices in accordance with the address assigned previously. The installer can SAVE the new devices one by one or all at once using the SAVE button on the main Programming screen.

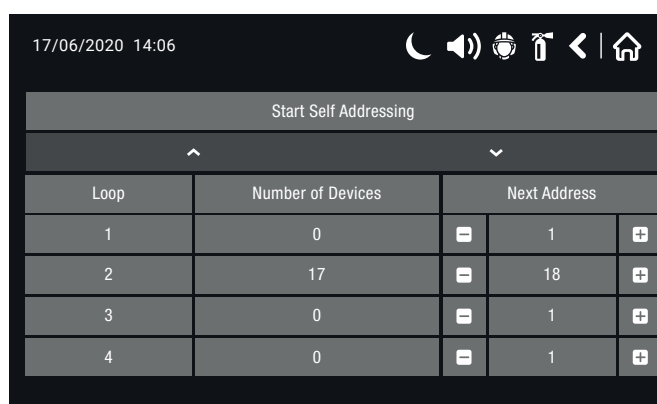
- **SEQUENTIAL ADDRESSING:** The new devices are ready to be connected to the system: the loop line is ready but the devices are not installed (the detectors and sounders are not mounted on the bases; buttons and modules are not connected to the loop via their terminals).

To access the sequential addressing menu, the installer should proceed as follows:


SYSTEM – PROGRAMMING – DEVICES – ADDRESSING – SEQUENTIAL ADDRESSING.

The display shows the first free address for each of the available loop boards 41ECL120.

At this point the installer can proceed with installation of devices 1 by 1. The panel assigns the address shown on the display to the first device installed, and automatically moves on to the next.



Start Self Addressing				
^ v				
Loop	Number of Devices	Next Address		
1	0	[-]	1	[+]
2	17	[-]	18	[+]
3	0	[-]	1	[+]
4	0	[-]	1	[+]

In the “Next Address” field, the panel shows the first free address for each loop. The panel recognises and skips all addresses which have already been assigned and moves on to the following free address. You can scroll through the address numbers using + and - or by entering the number directly, by pressing the address currently shown. Exit the menu by pressing .

- **SELF ADDRESSING:** The automatic addressing function for panel 41CPE118 is aimed at making it quicker and easier to install devices on the loop. The installer can fit all devices without pre-setting the address, so that they can all be addressed automatically afterwards with a single click from the panel menu.
The time required for self addressing depends on the system configuration and the total number of devices connected to the Loop. Procedure progress is shown by means of a progress bar at the bottom of the screen.
The installer should enter the number of the loop for which they want to begin addressing in the “Loop Number” field. The number of addressed devices will be shown in the “Number of Devices” field.

To access the self addressing menu, the installer should proceed as follows:

SYSTEM – PROGRAMMING – DEVICES – ADDRESSING – AUTO ADDRESSING.

There are 2 automatic addressing methods: using the serial ID of the devices and via isolator.

- **Auto addressing ID:** On starting this addressing method, the panel detects and numbers all devices in ascending order, observing the ID number on each Comelit device but divided into families, i.e. Modules and Buttons first, then Detectors and finally Sounders.
If the procedure is successful, the panel shows the message “Successful”, in addition to the total number of addressed devices on the selected Loop and any branches that are part of it.
- **Auto addressing Isolator:** On starting addressing via “Isolator”, the panel addresses all devices by arranging them in ascending order, beginning with the right-hand branch of the terminals on the Loop board fitted in the panel.
When a detector is fitted on a base with sounder (41SCB100 / 41SAB100), the panel addresses the sounder first and then the sensor mounted on it.
If the procedure is successful, the panel shows the message “Successful”, in addition to the total number of devices found on the selected Loop and any branches that are part of it.



CAUTION: If auto addressing via isolator, make sure that all devices installed on the Loop have an isolator. The only Comelit device which does NOT have an isolator is mini module 41IOM010. If starting this addressing procedure and modules 41IOM010 have been installed on the Loop, the search will not be successful and will stop as soon as the panel detects one of these devices. Repeat the addressing procedure using another method.

Branch	Address	Number of devices
1	5-6	2

The figure shows the auto addressing menu screen. Press “More” to view, if present, the number of branches on the Loop and the addresses that are part of it.

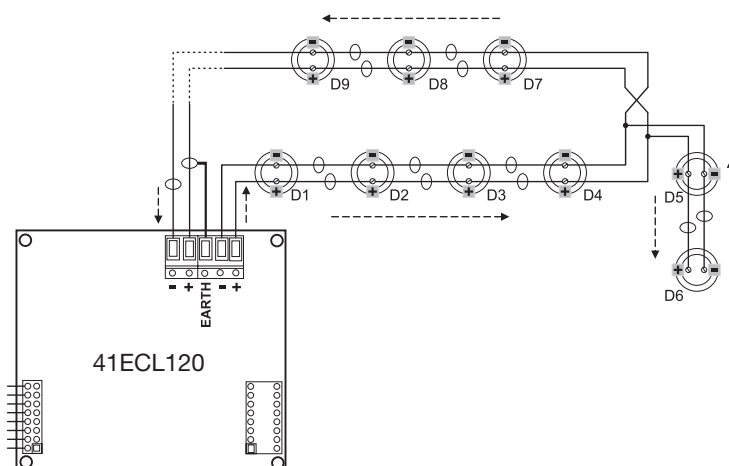


CAUTION: on carrying out one of these 2 auto addressing procedures on a 41CPE118 fire panel that is already operative (devices already addressed), all devices will be re-addressed according to the new procedure selected, with the risk that their numerical sequence and therefore the associated operating logics will be changed!

To access the addressing menu, carry out the sequence below:

SYSTEM – PROGRAMMING – DEVICES – ADDRESSING

During any of the addressing procedures, panel 41CPE118 enters a special operating mode for the addressing of devices: the panel is busy and does not check the operation of the other devices in the system. The menus for reviewing alarms, faults, warnings, tests and disabling procedures are temporarily disabled.



4.3.3.1 Setting an address

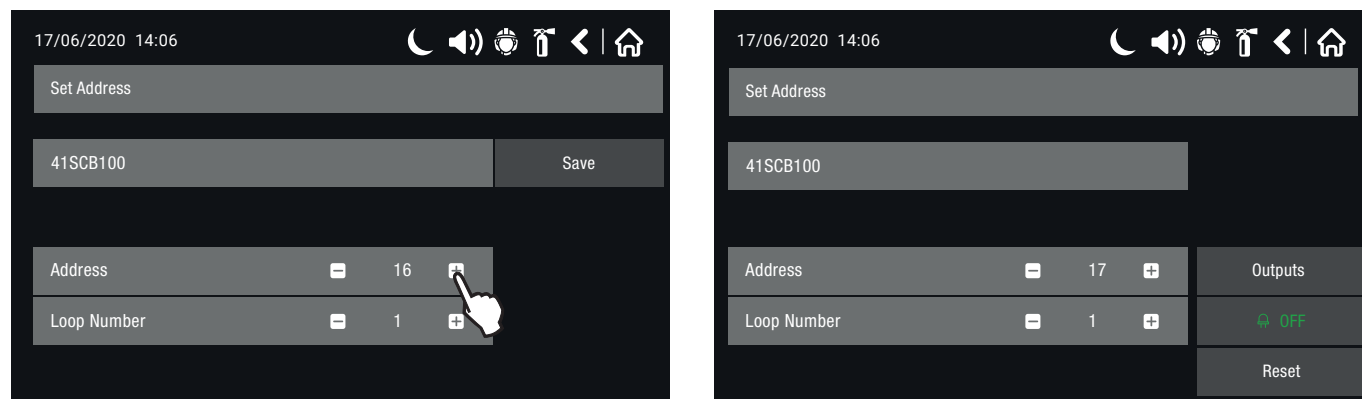
In this submenu the installer can directly assign the addresses to new system devices. The saving procedure is the same as for sequential addressing. It is recommended when the installer needs to add individual devices to the system configuration, linking them to free addresses.

The detectors and sounders should not be mounted on the bases; buttons and modules should not be connected to the loop.

To set the address for a device, select the following sequence:

SYSTEM – PROGRAMMING – DEVICES – ADDRESSING – SET ADDRESS.

The device should be ready for connection to the panel.



The system automatically shows the first address in the system. You can check which device is assigned to this address by pressing the button “TURN ON symbol” - the device LEDs will come on and remain lit steadily. The next time the button is pressed, they will switch off. Use the + & - buttons to scroll through the addresses and the loop number. The address is free if the “SAVE” button is active.

Once an available address has been identified, connect the new device to the system: fit the detector or sounder onto the base or connect the module to the loop via its terminal.

Press “SAVE” and wait a couple of seconds. If addressing was successful, the message “Successful” will appear on the display. If the message says “Error”, this means there is a problem: the device has not been connected correctly, there is no communication with the loop expansion.

You can proceed with assigning the next address or exit using the  button.

The installer can reset the device state by pressing the “RESET” button.

The “Outputs” button is activated for devices (sounders) and modules which have relay or monitored outputs. Press the referenced button to enable / disable the device output status.

4.3.3.2 Changing an address

The installer can use this submenu to change the address of a device. To change an address, select the following sequence:

SYSTEM – PROGRAMMING – DEVICES – ADDRESSING – CHANGE ADDRESS.

Change Address		
41PAM000		
Address	- 1 +	Outputs
Loop Number	- 2 +	OFF
New Address	- 1 +	Reset

The panel automatically shows the first address in the system. Use the + & - buttons to select the address and the loop number you want to change. In the “New Address” field, set the new address number for the device. If the address is free, the “Save” button will appear on the screen.

To change the address, press “Save” and wait a couple of seconds. If the address was changed successfully, the message “Successful” will appear on the screen. You can proceed with changing another address or exit using the button.

You can use the “RESET” button to reset the device operating conditions. The “Outputs” button is only active for modules with outputs or sounders. Use the “Outputs” button to enable or disable the module outputs / sound part of the sounder.

4.4 Zones

To access the zone programming menu, select the following sequence:

SYSTEM – PROGRAMMING – ZONES

Addressed panel 41CPE118 has 500 zones. The FIRE ALARM and PREALARM statuses are shown on the front cover, through the activation of the corresponding LED (up to 200). In the PREALARM condition, the corresponding zonal LED flashes and an alert message is shown on the panel display.

If a device is activated in the same zone for a second time, a FIRE


ALARM message is generated for the relevant zone; the number of the zone in fire alarm mode lights up in red.

Zone Number	
Zone Status	Enable
Mode	Double
Sounder Delay (T2)	60
Fire Brigade Delay (T2)	60
Fire Protection Delay (T2)	0
Zone Group	More >

Zone Number	
Zone sounders	Enable
Sounder group	0
Sounder group	0
Sounder group	0

The figure shows the general screen for programming a Zone.

Description of the Zones menu buttons:

-  active buttons used to select the Zone number, by directly pressing the number shown or by scrolling through the zones using the + & - buttons;
- **NAME:** active field used to enter the name of the Zone, maximum length 40 characters including spaces. Confirm with the "Save" button.
- **ZONE STATUS:** button used to enable / disable the Zone; the button changes colour according to the current status of the zone (green for enabled, yellow for disabled).
- **MODE:** active button used to change the Zone operating mode to one of 3 available options:
 - ◇ **NORMAL:** in NORMAL mode, any activation of a detector within the system generates an alarm event in the relevant zone.
 - ◇ **2 DEVICES** - in 2 DEVICES mode, any activation of a detector within the system generates a PREALARM event in the relevant zone, but it also waits for the activation of a second detector in the same zone before generating a FIRE ALARM indication. The RESET command will disable the FIRE and PREALARM events. If for 4 and a quarter minutes no other alarm signals are detected by another detector in the same zone, the FIRE alarm will be ignored and the panel will reset the prealarm event automatically.
 - ◇ **DOUBLE ALARM** - in DOUBLE ALARM mode, any activation of a detector within the system generates a PREALARM event in the relevant zone, but it also waits for a second alarm signal from the same detector before generating a FIRE ALARM indication. The RESET command will disable the FIRE and PREALARM events. If for 4 and a quarter minutes no other alarm signals are detected by the same detector in the zone, the FIRE alarm will be ignored and the panel will reset the prealarm event automatically.



CAUTION: the manual buttons and the input modules set to generate an alarm event will be reset automatically if they are linked to a zone with double alarm or 2 devices mode.

- **SOUNDER DELAY (T2)*:** field used to enter the delay time (T2) for activation of the sounders in that specific zone. The delay is between 0-540 seconds. When more than one zone is enabled, the SND output will monitor the zone with the shortest delay.
- **Fire Brigade DELAY (T2) *:** field used to enter the delay time (T2) for activation of the "Fire Brigade Delay" (FIRE R) output. The delay is between 0-540 seconds. When more than one zone is enabled, the output will monitor the zone with the shortest delay.
- **FIRE PROTECTION DELAY (T2)*:** field used to enter the delay time (T2) for activation of the "Fire Protection" (FIRE P) output. The delay is between 0-540 seconds. When more than one zone is enabled, the output will monitor the zone with the shortest delay.

*NOTE: the T2s are the times for setting a delay for the activation of an output. See APPENDIX E (2 alarm status levels).



CAUTION: if no T2 delay has been set - Sounders, Fire Brigade Delay or Fire Protection (T2 = 0 sec), the general T1 delay is ignored.

For example, if the "Sounder Delay (T2)" = 0 sec for Zone 1, set delay T1 will be ignored and the output will be enabled immediately if a fire alarm event occurs for that specific zone.

- **ZONE GROUP:** panel 41CPE118 zones can be arranged in separate zone groups (up to 48 groups). Each zone can be added to one of 3 different Zone Groups (A, B, C) to offer quicker programming via input / output logic, or to interface with the Voice Evacuation panel. Each zone, by default, is not linked to any group (the set value = 0). A maximum of 48 zone groups can be created.
- **MORE:** press the more button to access the "SOUNDER GROUP" submenu.
 - ◇ **ZONE SOUNDERS:** if this field is enabled, in the event of an alarm originating in this Zone, the sounders belonging to it will be activated; otherwise (disabled) the sounders belonging to this zone will not be activated.
 - ◇ **SOUNDER GROUP:** 3 different sounder groups can be entered and linked with a specific Zone. In the event of a fire alarm originating in that zone, the sounders belonging to the entered sounder group will be activated in line with the alarm status for that zone.

For example, if we enter Group 1 in the first “Sounder Group” field for Zone 1, and the “Zone Sounders” option is enabled, this means that, if a Fire Alarm event occurs in that Zone, the sounders for Zone 1 and the sounders belonging to Sounder Group 1 will be activated. To link a sounder to its sounder group, please refer to the devices (sounders) chapter.

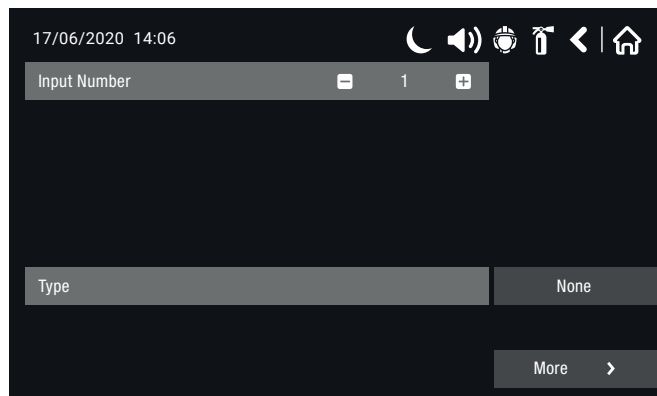
To save any new parameters, press “Save” on the main zones menu screen.

4.5 Logic inputs

To access the Inputs menu, select the sequence below:

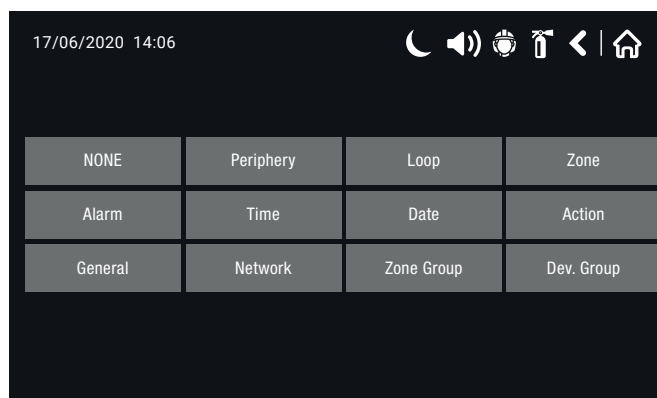
SYSTEM – PROGRAMMING - INPUTS

The menu includes two submenus: “Inputs” and “Groups”. Select the “Inputs” submenu to begin configuring the settings for the logic inputs.



Initial screen for an unprogrammed logic input. The button shows NONE.

Press “NONE” to access the submenu used to select the input type, as shown in the figure below.

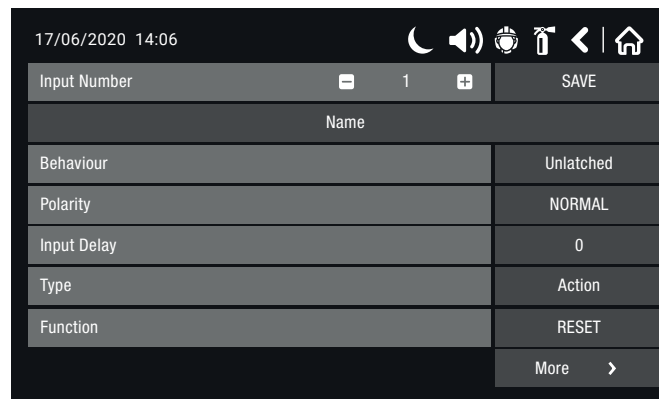


Description of the available input types:

- **NONE:** the input is not used.
- **PERIPHERY:** not applicable.
- **LOOP:** select this option when the logic input is an input for a loop device (modules 41IOM010, 41IOM040, 41IOM022, 41IOM122).
- **ZONE:** select this option when the input is generated by a zonal event.
- **ALARM:** select this option when the input is generated by one or more alarms detected.
- **TIME:** select this option when the input is generated based on a time schedule.
- **DATE:** select this option when the input is generated based on a day schedule.
- **ACTION:** select this option when the input is generated by an “action” that has taken place.
- **GENERAL:** select this option when the input is generated by a “general event”.
- **NETWORK** - select this option when the input is generated by an event / device belonging to another panel connected to its network (RS485 / LAN).
- **ZONE GROUP:** select this option when the input is generated by a zone in fire alarm or fault status, including those in a zone group.
- **DEV. GROUP:** select this option when the input is generated by a sensor in alarm status, belonging to a specific group of sensors.

Description of the Inputs menu buttons:

Once the desired input type has been selected, you need to set the parameters relating to that specific input; the general screen with parameters common to all inputs is shown below:



The screenshot shows a mobile application interface for configuring an input. At the top, there is a status bar with the date and time '17/06/2020 14:06' and several icons. Below this is a header bar with 'Input Number' set to '1' and a 'SAVE' button. The main area contains a form with the following fields: 'Name' (a wide text input), 'Behaviour' (set to 'Unlatched'), 'Polarity' (set to 'NORMAL'), 'Input Delay' (set to '0'), 'Type' (set to 'Action'), and 'Function' (set to 'RESET'). At the bottom right, there is a 'More' button with a right-pointing arrow.

- **Logic Input Number:** use the + & - buttons or enter the number directly to select an input between 1 and 250. The screen content may vary depending on the settings for the selected Input Type. All inputs are pre-set to NONE by default.
- **Name:** field used to enter a name or description for the input being programmed.
- **Behaviour:** field used to enter the input behaviour type:
 - ◊ **Auto Reset** – the input status remains enabled until it is physically disabled
 - ◊ **Manual Reset** – the input status is only disabled after a Reset event
- **Polarity:** field used to enter the input polarity:
 - ◊ **Normal** – the input is Enabled when the result of the logic function is TRUE
 - ◊ **Inverted** – the input is Enabled when the result of the logic function is FALSE
- **Input Delay:** a delay can be set for input enabling, between 0-600 seconds.
- **Type:** button used to select the input type as described previously.
- **Function:** this button is only active for input types (zones, action, general, zone group).
- **“More” – Input Group:** each input can belong to a logic input group. The group can work in OR or AND logic.



CAUTION: by default, input 1 is linked to input group 1, input 2 is linked to input group 2, etc.

4.5.1 Submenus for selecting the input type

Depending on the selected input type, the “FUNCTION” button is active and can be used to make various activation choices.

- **LOOP:** select this option when the logic input is an input for a loop device (modules 41IOM010, 41IOM040, 41IOM022, 41IOM122); input terminals are shown as channel numbers.

Press “MORE” to access input programming:

Group	1
Loop input parameters	
41IOM122	
Loop device address	1
Loop number	1
Channel (1,2)	1
Sabotage	OFF

- ◇ **Group:** if necessary, enter the number of the input group to which the input should belong, between 1 and 250.
- ◇ **Loop device address:** enter the address number of the device you want to program as an input, between 1 and 250.
- ◇ **Loop number:** enter the Loop number of the device.
- ◇ **Channel:** enter the number of the device input (channel), to be linked with the logic input; programmable channels for the module are shown in brackets.
- ◇ **Sabotage:** when the option is enabled (ON), the input is enabled (true) in the event of a fault condition.



CAUTION: if the device is a detector, a manual button or a module for a conventional zone, the channel should always be set to “1”; the panel does not allow the value to be changed.

The following alert messages may be shown on the screen:

- “This device can not be used as Input!” - This means that the set device or channel cannot be used as an input. The message is shown if the set address belongs to a device type that does not have programmable inputs (e.g. Output modules);
- “Already Used!” - This means that the set device or channel is already being used for other procedures in the panel configuration.

To save any new parameters, press “Save” on the main input screen.

- **ZONE:** select this option when the logic input is determined by a zonal event.
Press the button next to the “Functions” field to select the zonal event type:

Input Number	1	SAVE
Name		
Behaviour	Unlatched	
Polarity	NORMAL	
Input Delay	0	
Type	Zone	
Function	ZONE FIRE	
		More >

- ◇ **Zone Fire:** the input is generated by the Fire Alarm status for the selected Zone.
- ◇ **Zone Fault:** the input is generated by the Fault status for the selected Zone.
- ◇ **Zone Disabled:** the input is generated by the disablement status for the selected Zone.
- ◇ **Zone PreAlarm:** the input is generated by the PreAlarm status for the selected Zone.

Press “MORE” to program the following parameters:

- ◇ **Group:** if necessary, enter the number of the input group to which the input should belong, between 1 and 250.
- ◇ **Zone Number:** enter the number of the zone generating the input, between 1 and 200.

To save any new parameters, press “Save” on the main input screen.

- **ALARM:** select this option when the input is generated by a number of alarms detected in a specific zone.

Press “MORE” to program the following parameters:

Group	1
Zone input parameters	
Zone number	1
Alarms counter	1

- ◇ **Group:** if necessary, enter the number of the input group to which the input should belong, between 1 and 250.
- ◇ **Zone Number:** enter the number of the zone, between 1 and 200.
- ◇ **Alarms Counter:** enter the number of alarms, between 1 and 9.

To save any new parameters, press “Save” on the main input screen.

TIME: select this option when the input will be enabled on the basis of a time schedule.

Press “MORE” to set:

Day	Status
Monday	OFF
Tuesday	OFF
Wednesday	OFF
Thursday	OFF
Friday	OFF
Saturday	OFF
Sunday	OFF

- ◇ **Hour:** set an hour for enabling. Press the button next to the field and enter the hour using the keypad. Confirm with the OK button.
- ◇ **Minutes:** set the minutes for enabling. Press the button next to the field and enter the minutes using the keypad. Confirm with the OK button.
- ◇ **Day of week:** press the Change button next to the field - the days of the week are listed in a separate screen. Enable (ON) the days of the week on which the input should be enabled.
- ◇ **Group:** if necessary, enter the number of the input group to which the input should belong, between 1 and 250.

To save any new parameters, press “Save” on the main input screen.

- **DATE:** select this option when the input should be enabled on the basis of a day schedule.

Press “MORE” to set:

- ◇ **Date - Year:** press the button next to the field and enter the year using the keypad. Confirm with the OK button.
- ◇ **Date - Month:** press the button next to the field and enter the month using the keypad. Confirm with the OK button.
- ◇ **Date - Day:** press the button next to the field and enter the day using the keypad. Confirm with the OK button.
- ◇ **Group:** if necessary, enter the number of the input group to which the input should belong, between 1 and 250.

To save any new parameters, press “Save” on the main input screen.

- **ACTION:** select this option when the input is a system “Action”.

Press the button next to the “Functions” field to select the type of Action to be linked with the input, as shown below:

The left screenshot shows the 'Input Number' screen with the following fields:

Input Number	1	SAVE
Name		
Behaviour	Unlatched	
Polarity	NORMAL	
Input Delay	0	
Type	Action	
Function	SILENCE BUZZER	
	More	>

The right screenshot shows the 'More' menu with the following list of actions:

- SILENCE BUZZER
- SILENCE SOUNDER
- RESET
- SOUNDER ON
- SOUNDER ON (ZONAL)
- FIRE BRIGADE ON
- FAULT OUTPUT ON
- FAULT PROTECTION ON

- ◇ **SILENCE BUZZER** - Activated when buzzer silencing occurs in the system.
- ◇ **SILENCE SOUNDER** - Activated when sounder silencing occurs in the system.
- ◇ **RESET** - Activated when a Reset event occurs in the system.
- ◇ **SOUNDER ON** - Activated when a Sirens active event occurs in the system.
- ◇ **FIRE BRIGADE ON** – Activated when the monitored Fire Brigade Delay output is enabled.
- ◇ **FAULT OUTPUT ON** - Activated when the monitored Fault output is enabled.
- ◇ **FIRE PROTECTION ON** - Activated when the monitored Fire Protection output is enabled.
- ◇ **SOUNDER ON (ZONAL)** - Activated when a Zone Sounders Active event occurs in the system.
- ◇ **DAY MODE** – Activated when Day Mode is set on the system.
- ◇ **NIGHT MODE** - Activated when Night Mode is set on the system.

Press “MORE” to enter the input group number to be linked with the input (if necessary).

To save any new parameters, press “Save” on the main input screen.

- **GENERAL:** select this option when the input will be enabled by a “General” event in the System.

Press the button next to the “Functions” field and select the type of event to be linked with the input.

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Input Number: 1 SAVE

Name

Behaviour	Unlatched
Polarity	NORMAL
Input Delay	0
Type	General
Function	COMMON FIRE
More >	

17/06/2020 14:06

- COMMON FIRE
- COMMON PREALARM
- COMMON FAULT
- SYSTEM FAULT
- DISABLED
- TEST
- COMMON EVACUATE
- VOICE CYCLE

- ◊ **COMMON FIRE** - Activated when a “Fire Alarm” event occurs in the system.
- ◊ **COMMON PREALARM** - Activated when a “PreAlarm” event occurs in the system.
- ◊ **COMMON FAULT** - Activated when a “Common fault” event occurs in the system.
- ◊ **SYSTEM FAULT** - Activated when a “System Fault” event occurs.
- ◊ **DISABLED** - Activated when disablements (loop device, zones, outputs, buzzers, etc...) occur in the system.
- ◊ **TEST** - Activated when a “Test” procedure is in progress in the system.
- ◊ **COMMON EVACUATE** - Activated when an “Evacuate” event occurs in the system.
- ◊ **VOICE CYCLE** - Activated when the alternating “voice cycle” starts (the ON and OFF time parameters are located in the “more” submenu as part of the “Sounders Mode” menu).

Press “MORE” to enter the input group number to be linked with the input (if necessary).

To save any new parameters, press “Save” on the main input screen.

- **NETWORK:** select this option when the input is generated by an event / loop device originating from another panel connected to its network (RS485 / LAN).

17/06/2020 14:06

Input Number: 1 SAVE

Name

Behaviour	Unlatched
Polarity	NORMAL
Input Delay	0
Type	Network
More >	

17/06/2020 14:06

Group: 1

Network input parameters

Output number	1
Panel / repeater number	1

Press “MORE” to set:

- ◊ **Output Number:** enter the output number, between 1 and 250.
- ◊ **Panel Number:** enter the number of the panel from which the output originates, between 1 and 64.
- ◊ **Group:** if necessary, enter the number of the input group to which the input should belong, between 1 and 250.

To save any new parameters, press “Save” on the main input screen.

- **ZONE GROUP:** select this option when the input is generated by one of the zones in fire alarm or in fault status, belonging to that specific zone group.

Press the button next to the “Functions” field to select the zone group event type:

Zone Fire: the input is generated by the Fire Alarm status of a Zone belonging to that zone group.

Zone Fault: the input is generated by the Fault status of a Zone belonging to that zone group.

17/06/2020 14:06

Input Number 1 SAVE

Name

Behaviour	Unlatched
Polarity	NORMAL
Input Delay	0
Type	Zone Group
Function	ZONE FIRE
More >	

17/06/2020 14:06

ZONE FIRE

ZONE FAULT

Press “MORE” to set:

- ◊ **Zone Group Number:** enter the number of the zone group which, in alarm or fault conditions, generates the input between 1 and 48.
- ◊ **Function:** set the operating logic (OR / AND).
- ◊ **Group:** if necessary, enter the number of the input group to which the input should belong, between 1 and 250.

To save any new parameters, press “Save” on the main input screen.

- **DEV. GROUP:** select this option when the input is generated by a sensor (41RFU100, 41RML100, 41RCS100) in alarm status, belonging to that specific group of sensors.

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Input Number 1 SAVE

Name

Behaviour	Unlatched
Polarity	NORMAL
Input Delay	0
Type	Device Group
More >	

17/06/2020 14:06

Group 1

Device group input parameters

Device group	1
Function	OR

Press “MORE” to set:

- ◊ **Device Group Number:** enter the number of the device group which, in alarm status, generates the input between 1 and 100.
- ◊ **Function:** set the operating logic (OR / AND).
- ◊ **Group:** if necessary, enter the number of the input group to which the input should belong, between 1 and 250.

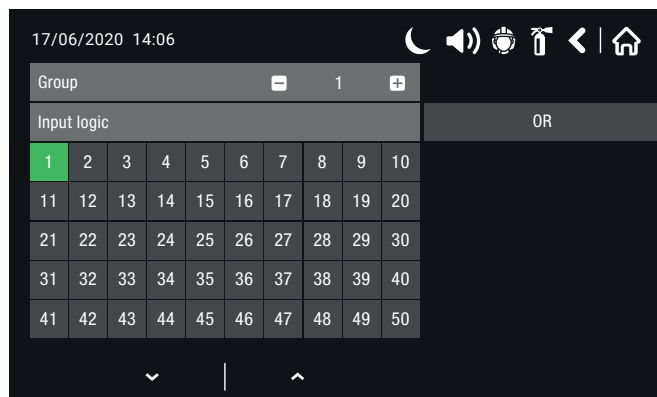
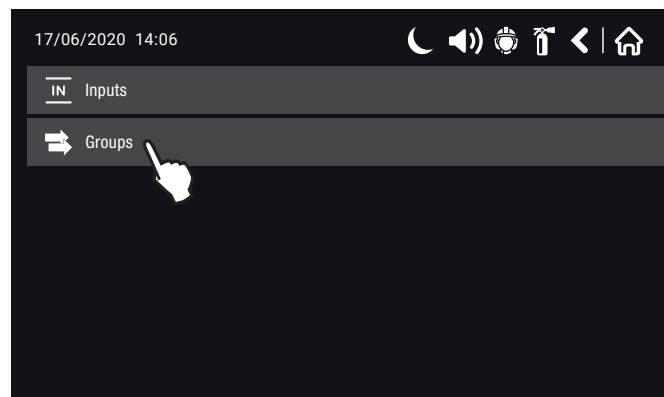
To save any new parameters, press “Save” on the main input screen.

4.5.2 INPUT GROUP - View and change

This menu can be used to quickly view and change the inputs belonging to a group and, if necessary, to change their parameters.

To enter the “Input Group” menu, press the following in sequence:

SYSTEM – PROGRAMMING – INPUTS – GROUPS



All inputs are shown on the screen for a group (use the up and down arrows to scroll through); they are represented by small square buttons. If the input belongs to that group, the button is green, otherwise it will be grey.

The + & - buttons can be used to scroll through and view all input groups (max. 250).

- Operating logic:

use the button next to the “Input Logic” field to set the operating logic for the inputs added to that specific group:

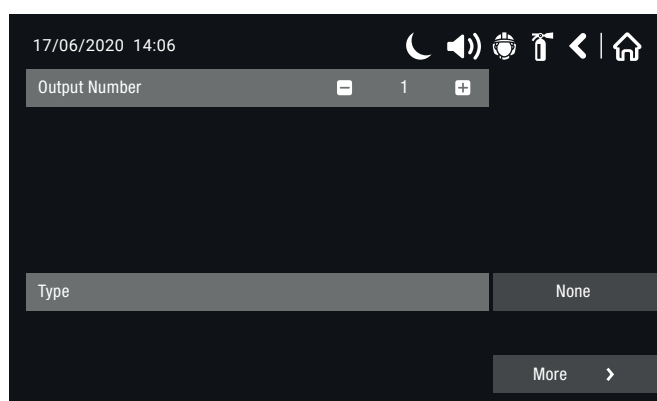
- OR function: at least one input belonging to the group should be “TRUE” to activate the relevant output.
- AND function: all the inputs belonging to the group should be “TRUE” to activate the relevant output.

To save any new parameters, press “Save”.

4.6 Logic Outputs

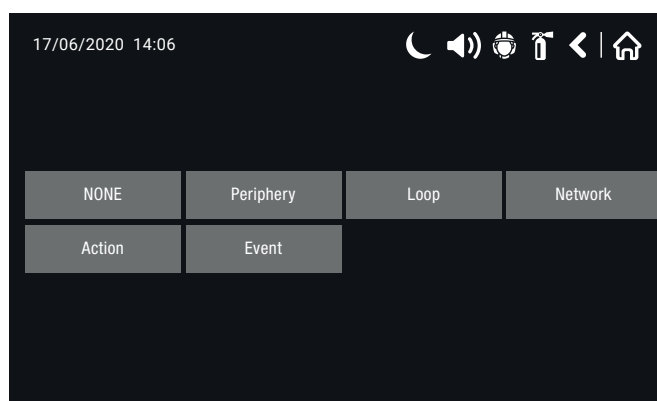
To access the Outputs menu, select the sequence below:

SYSTEM – PROGRAMMING – OUTPUTS



Initial screen for an unprogrammed logic output. The active button shows NONE.

Press “NONE” to access the submenu used to select the output type.

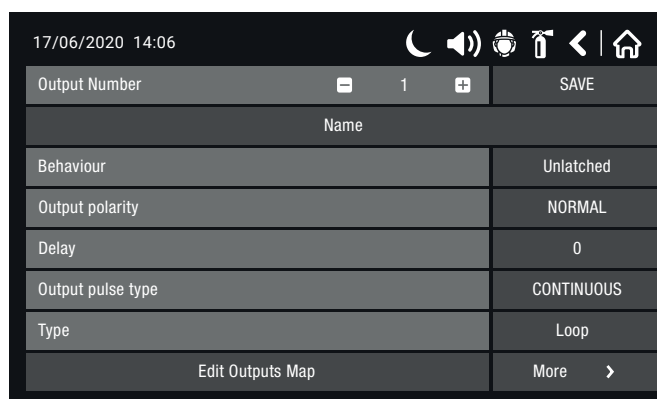


Description of the available Output types:

- ◊ **NONE:** the output is not used.
- ◊ **PERIPHERY:** select this option when the output to be activated is a periphery device relay built into the panel.
- ◊ **LOOP:** select this option when the output to be activated belongs to an output module (modules 41IOM004, 41IOM022, 41IOM122, 41IOM000, 41IOM000/240).
- ◊ **NETWORK:** select this option when the output should be activated by an event / device belonging to another panel connected to its network (RS485 / LAN).
- ◊ **ACTION:** select this option when the output should be activated by an “action” that has taken place.
- ◊ **EVENT:** select this option when the output should be activated by a “general event”.

Description of the Outputs menu buttons:

Once the desired output type has been selected, you need to set the parameters relating to that specific output; the general screen with parameters common to all outputs is shown below:



- Output Number: use the + & - buttons or enter the number directly to select an output between 1 and 250. The screen content may vary depending on the settings for the selected output Type. All outputs are pre-set to NONE by default.
- Name: field used to enter a name or description for the output being programmed.
- Behaviour: field used to enter the output behaviour type:
 - ◊ Auto Reset – the output status remains enabled until the event that generated it is disabled
 - ◊ Manual Reset – the output is only disabled after a Reset event
- Polarity: field used to enter the output polarity:
 - ◊ Normal – the output is Enabled when the result of the logic function is TRUE
 - ◊ Inverted – the output is Enabled when the result of the logic function is FALSE
- Output Delay: a delay can be set for output enabling, between 0-600 seconds.

- Output pulse type: button used to select the Output type:
 - ◊ Continuous - the signal from the output is continuous
 - ◊ Pulsed - the signal from the output is pulsed (3 sec. on/ 3 sec. off)
 - ◊ One pulse - the signal from the output is a single pulse (5 sec.)
- Type / Function: button used to select the Output type as described previously.
- Edit Outputs Map: screen for entering the inputs on the logic diagram for the output.
- More: screen for filling in the parameters relating to each type of output.

4.6.1 Submenus for selecting the output type

- **PERIPHERY**: select this option when the output is a periphery device terminal (relay output module).

Press “MORE” to program the following parameters:

Periphery device output parameters	
Periphery device address	2
Periphery device output relays (1-4)	1

- ◊ **Periphery device output**: enter the relay module output number (from 1 to 4).

To save any new parameters, press “Save”.

LOOP: select this option when the output is an output module terminal.
Press “MORE” to program the following parameters:

Loop device output parameters	
41IOM122	
Loop device address	1
Loop number	1
Channel (3,4)	3

- ◊ **Loop device address:** enter the device address.
- ◊ **Loop number:** enter the number of the loop to which the device belongs.
- ◊ **Channel:** enter the channel number for the device you want to enable. The channels available for the selected device are shown in brackets.



CAUTION: *If the device is a sounder, or a conventional zone module 41ISC000, the panel will only show one available channel.*

The following alert messages may be shown on the screen:

- **“This device can not be used as Output!”** - This means that the set device or channel cannot be used as an output. The message is shown if the set address is for a device type that does not have programmable outputs (e.g. input-only modules).
- **“Already Used!”** - This means that the set device or channel is already being used for other procedures in the panel configuration.

To save any new parameters, press “Save” on the main input screen.

- **NETWORK:** select this option when the output needs to be reported to the (network) input of another panel connected via RS485 / LAN.

Network output parameters	
Input number	0
anrel / repeater number	0

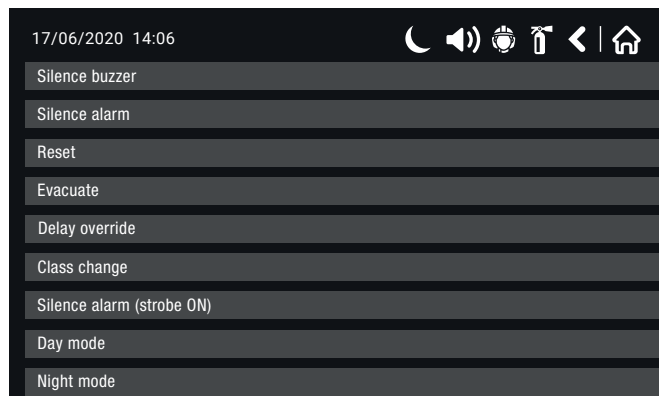
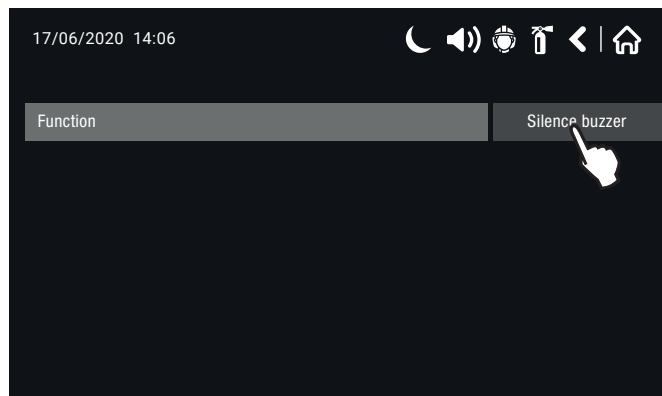
Press “MORE” to set:

- **Input number:** enter the input number, between 1 and 250.
- **Panel / repeater number:** enter the number of the panel from which the network input originates, between 1 and 64.

To save any new parameters, press “Save” on the main input screen.

- **ACTION:** select this option when the output should be activated by an “Action” that has taken place in the system.

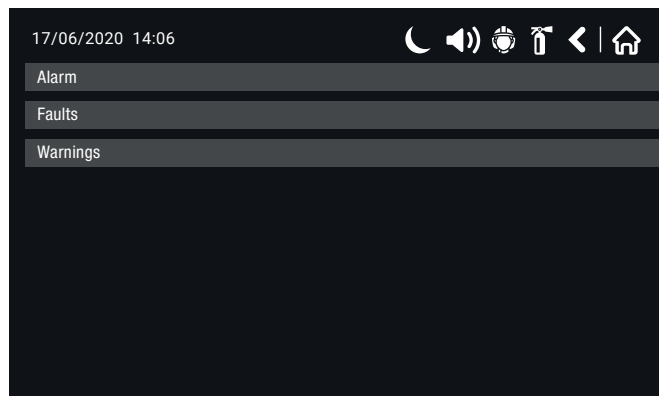
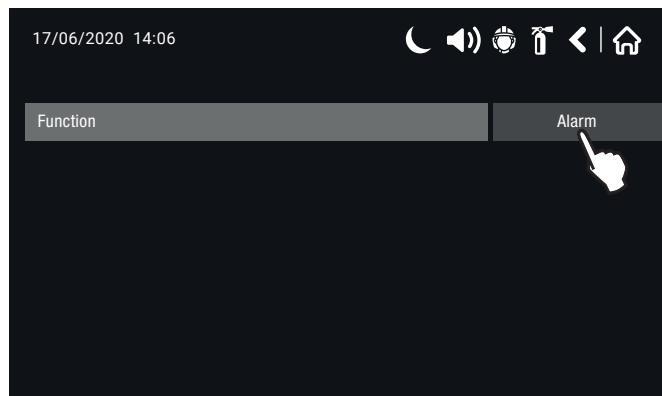
Press the button next to the “Functions” field to select the type of Action to be linked with activation of the output, as shown below:



- ◊ **SILENCE BUZZER** - Output enabled when a buzzer silencing event occurs in the system.
- ◊ **SILENCE SOUNDER** - Output enabled when a sounder silencing event occurs in the system.
- ◊ **RESET** - Output enabled when a Reset event occurs in the system.
- ◊ **EVACUATE** - Output enabled when an Evacuate event occurs in the system.
- ◊ **DELAY OVERRIDE** - Output enabled when a Delay Override event occurs in the system.
- ◊ **CLASS CHANGE** - Output enabled when a Class Change event occurs in the system.
- ◊ **SILENCE ALARM (STROBE ON)** - Output enabled when a Silence Alarm (Strobe ON) event occurs in the system. Enter the zone number.
- ◊ **DAY MODE** - Output enabled if Day Mode is set on the system.
- ◊ **NIGHT MODE** - Output enabled if Night Mode is set on the system.

To save any new parameters, press “Save” on the main output screen.

- **EVENT:** select this option when the output should be activated by a general “Event” that has taken place in the system.



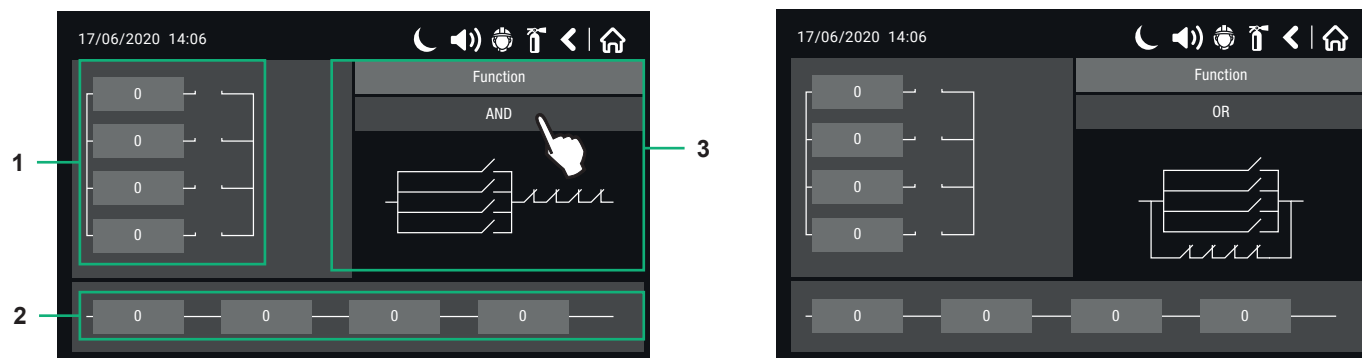
Press “MORE” to set the type of event that will enable the output:

- ◊ **Alarm** - Output enabled when a Fire Alarm event occurs in the system.
- ◊ **Faults** - Output enabled when a Fault event occurs in the system.
- ◊ **Warnings** - Output enabled when a Technical Warning event (indication) occurs in the system.

To save any new parameters, press “Save” on the main output screen.

4.6.2 Edit Outputs Map menu (entering input groups and checking the outputs)

Menu for programming logic procedures for output enabling. The map is individual and can be set for every single output. Logic interactions such as inputs checking the outputs are set on a map which is shown on a separate screen after the Edit Outputs Map has been pressed in the main Outputs menu.



The screen is organised into 3 areas:

- 1 - Section for setting the number of input groups operating in OR logic.
- 2 - Section for setting the number of input groups operating in AND logic.
- 3 - Setting the type of logic interaction between sections 1 and 2. AND or OR logic function.

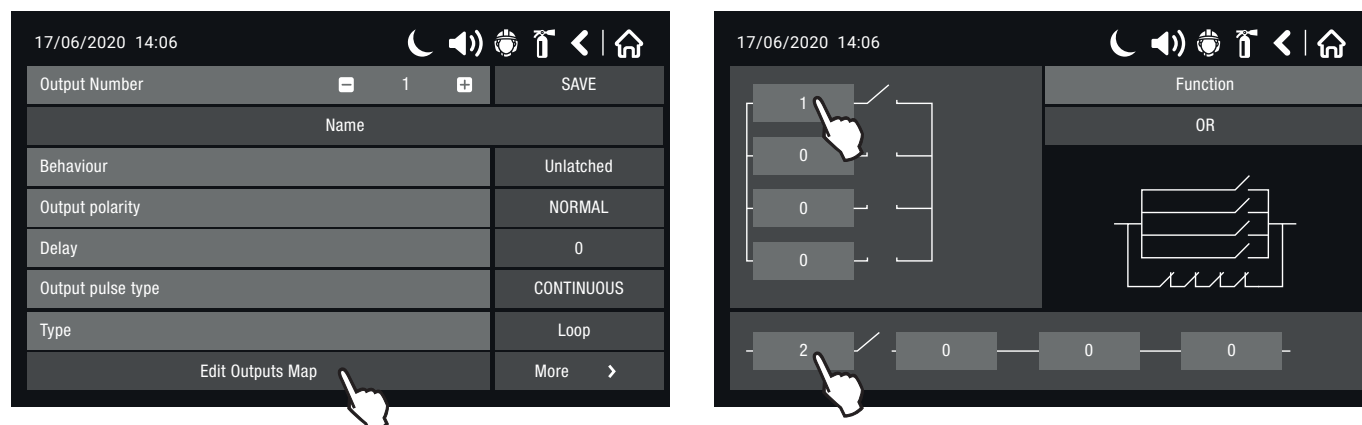
The logic is set by pressing the button in the top right-hand corner. Each time the button is pressed, the logic function changes. The selected logic is shown on the screen with a diagram representing the interaction between the input group numbers for sections 1 and 2.

To enter an input group number, press the button and enter the number using the keypad.



CAUTION: it is important to know the input group numbers to be added to the logic diagram for the output to be programmed in advance. We recommend creating a list that describes the correspondence between the logic procedure for the input and for the output.

Example illustrating an output logic diagram setup:



Select a free output - in the example, this is number 1. Next, select the Output type - in the example, the type is an output loop device. Press "Edit Outputs Map" to enter the logic map.

Enter the number of input groups, vertically (OR section) and horizontally (AND section).

The set parameters are shown with "an open switch" which represents an added logic procedure. Select the operating logic for both sections.

In the example, output number 1 is enabled when one of the input groups 1 or 2 is active - OR logic.

If the operating logic is set to AND, output number 1 will only be enabled if both input groups 1 and 2 are active.

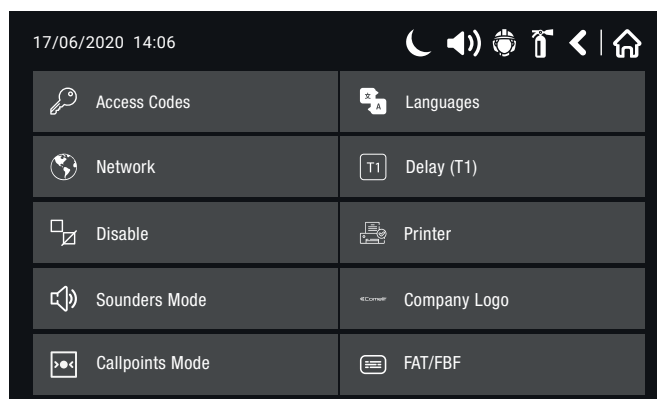
To save any new parameters, press "Save" on the main output screen.

4.7 PANEL

To access the Panel menu, press the following in sequence:

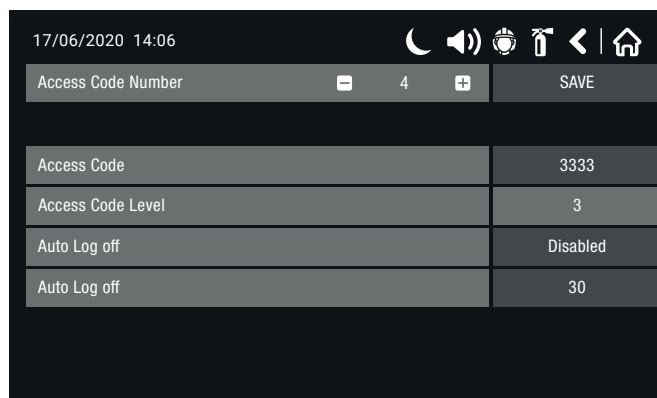
SYSTEM – PROGRAMMING – PANEL

This menu provides access to additional submenus for programming / changing panel parameters.



4.7.1 Changing the code and access level

The system supports 4 different codes, and a different access level can be set for each of them. Paragraph 4.1 describes the factory set codes and the corresponding access levels. Each code has 4 digits.



After entering the code for the first time, the system will automatically ask you to re-enter the code in order to confirm it. If the two codes are different, the system will ignore these entries and the old code will remain enabled. If the entered codes are identical, the new code will appear in the “Access Code” viewing field, and the “Save” button will appear in the top right-hand corner of the screen. To save the code entered, select “Save”. If the code already exists, the system will ignore it and will retain the old code.

The access level can be changed by selecting the button next to the “Access Code Level” field. When it is pressed a menu appears, from which the user should select the new access level (1-3).

If the new access level set differs from the old one, it will be enabled when you press Save. Once pressed, the new access level will be saved.

The “Auto Log off” is only present on the screen for access level 3. If the field is enabled, access levels 2 and 3 are exited automatically. The automatic exit time can be set from 0 to 60 minutes. Automatic exit from the programming menu only takes place if there are no actions on the panel display during the set time interval.

There must be at least one code in the system with access level 3!

The panel does not allow editing the access level (3), if it is the only one present!

4.7.2 Network menu

After selecting the “Network” button a new screen appears, from which the installer can set the parameters for two submenus: “Network Settings” and “Panels”.

4.7.2.1 Network Settings:

Name	SAVE
Port	7000
Panel Number	1
Network Status	Disabled
Network Type	LAN
Protocol	Modbus TCP/IP
More >	

This menu is used to set the following parameters:

- **Name** – Enter the panel name (max. 40 characters).
- **Port** – Enter the TCP/IP port for communication with the panel. The panel automatically reserves the next two ports as well. They must be free in order to be used by the panels. All panels in the network must have the same port number. When the port parameter is changed, the panel must be restarted.
- **Panel Number** – Enter the number identifying the panel in the network (1-64). This number makes it possible to recognise different panels within the same network.
- **Network Status** - Network status setting. The network can be enabled or disabled.
- **Network Type** - Select the communication network type when fire panels are linked together or with EVAC panels: Serial (RS485), LAN, EVAC Voice or EVAC Voice + LAN.
- **Protocol** – Setting for the communication protocol based on the BMS software used - Modbus RTU over TCP / IP or Modbus TCP / IP.

After completing the settings, press “Save” on the main screen.

In the same menu, press “MORE” to program the following parameters:

- **Panel IP Address** – Field used to enter the IP address of the panel.
- **Netmask** – Field used to enter the panel Netmask.
- **Router** – Field used to enter the Router for the panel.
- **Panel MAC Address** – Field for the panel MAC address. This field cannot be changed.
- **Redundancy** – Button used to enable / disable redundancy when the network between 2 or more panels takes place via an RS485 connection. Set OFF if you do not want to monitor the RS485 network connection status; set ON if you want to monitor it.

Panel IP Address	192	168	0	102
Netmask	255	255	255	0
Router	192	168	0	100
Panel MAC Address	0050C2745D6A			
Redundancy	OFF			

4.7.2.2 Panels

After enabling the network, each panel begins to search for other connected panels. If a new panel is found, it is added to the list of panels in the network. Up to 64 panels can be connected in a network.

To view any panels in the network, scroll through the list of panels using the + & - buttons.

Use the **Add** command to save the new panel. At this point the status of the panel will change from New to Present. The panels monitor each other and, if one disappears, its status in the list will change to Fault. The menu can also be used to set which information is received / sent by the corresponding panel: messages and/or commands.

17/06/2020 14:06		Panel Number		2	SAVE
Name					
Panel IP Address		192	168	0	170
Panel Status		Present			
Receive Messages		Enabled			
Receive Commands		Disabled			
Send Commands		Disabled			
		More >			

When receiving messages is enabled, the behaviour of the outputs must also be specified, by selecting “MORE”.

Each message can be enabled or disabled. Status changes are only saved after the “Save” button is pressed.

17/06/2020 14:06		Panel Number		2	SAVE
Name					
Panel IP Address		192	168	0	170
Panel Status		Present			
Receive Messages		Enabled			
Receive Commands		Disabled			
Send Commands		Disabled			
		More >			

17/06/2020 14:06			
Repeat Sounder	Enabled		
Repeat Fire Brigade	Enabled		
Repeat Fault Output	Disabled		
Repeat Fire Protection	Disabled		

Messages have the following meanings:

- **Repeat Sounder** - Repeats the status of the “Sounder” (SND) panel output, including delays.
- **Repeat Fire Brigade** - Repeats the status of the “Fire Brigade” (Fire R) panel output, including delays.
- **Repeat Fire Protection** - Repeats the status of the “Fire Protection” (Fire P) panel output, including delays.
- **Repeat Fault Output** - Repeats the status of the “Fault” panel output.

If one of the fire panels is no longer found within the network, the other panels will show the message “Panel no.X Fault”.

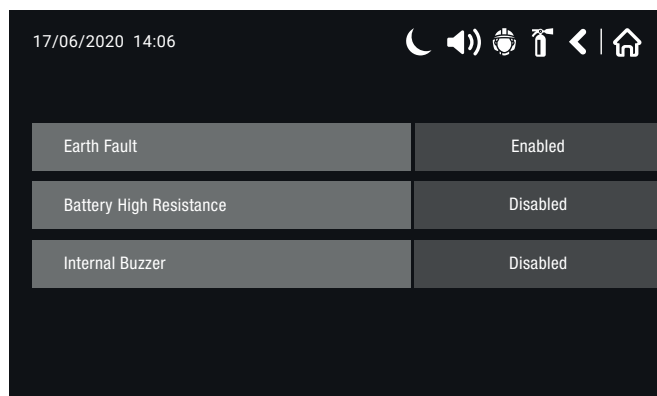
If the IP address of a panel is duplicated, the panels will show the message “Double IP address panel no.X”.

After completing the settings, press “Save” on the main screen.

4.7.3 Disablements menu

This submenu allows the installer to enable or disable the following indications:

- **Earth Fault**
- **Battery High Resistance**
- **Internal Buzzer**

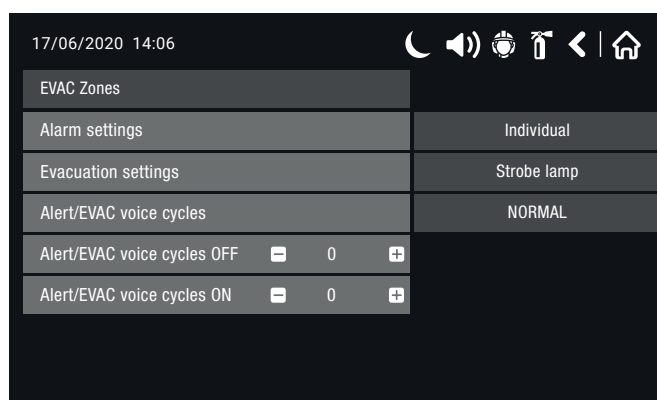
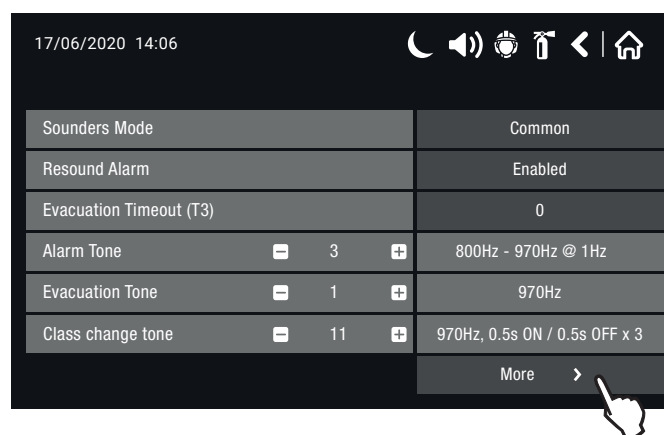


CAUTION: the “Battery High Resistance” indication must be enabled in compliance with standard EN54-4! On initial panel startup, the “Battery High Resistance” indication is disabled and must be enabled by the installer. Every time the panel is restarted (main and backup power supply disconnected), the “Battery High Resistance” indication is disabled and must be enabled by the installer.

After completing the changes, press “Save”.

4.7.4 Sounders Mode

This submenu gives the installer the option of setting and changing the parameters common to all sounders on the Loop within the system.



The following parameters can be changed:

- **Sounders Mode:** press the button to change the sounder operating mode:
 - ◊ **Common** – in fire alarm condition, all sounders will be activated regardless of the zone to which they belong;
 - ◊ **Zonal** – in fire alarm condition, only the sounders belonging to the zone for which the alarm was triggered will be activated;
- **Resound Alarm:** this field is enabled in both operating modes (Zonal and Common). When this option is disabled, after the sounders are silenced for the first time (Silence Alarm button pressed), they will no longer be reactivated if a second Fire Alarm event occurs; they can only be activated manually. When the option is Enabled, the silenced sounders will be activated automatically if a second Alarm event occurs.
- **Evacuation Timeout (T3):** this is the delay time when actual site evacuation begins. You can enter a delay from 1 to 10 minutes. If the value = 0, the panel will never enter Evacuate mode (automatic).
- **Alarm Tone:** field used to change the sounder tone when they are in Fire Alarm condition. Buttons + & - can be used to select one of the 32 available tones. By default the Alarm tone in the panel is number 3 (800Hz-970Hz @ 1Hz).
- **Evacuation Tone:** field used to change the sounder tone when they are in Evacuate condition. Buttons + & - can be used to select one of the 32 available tones. By default the Evacuate tone in the panel is number 1 (970Hz continuous).
- **Class change tone:** field used to change the sounder tone when they are in class change mode (970Hz, 0.5s ON / 0.5s OFF x3)

Press “MORE” to access the submenu for alarm and evacuation parameter settings:

- **ALARM SETTINGS:**

- ◊ **Strobe** – only the visual part of the sounders in the loop will be enabled. The panel “SND” output will NOT be enabled.
- ◊ **Sound** – only the audible part of the sounders in the loop will be enabled. The panel “SND” output will be enabled.
- ◊ **Sound / Strobe.** – both audible and visual parts of the sounders in the loop will be enabled. The panel “SND” output will be enabled.
- ◊ **Individual** – each sounder is activated in accordance with its own individual settings, specified in the “More” menu for each Sounder device.

- **EVACUATION SETTINGS:**

- ◊ **Strobe** – only the visual part of the sounders in the loop will be enabled. The panel “SND” output will NOT be enabled.
- ◊ **Sound** – only the audible part of the sounders in the loop will be enabled. The panel “SND” output will be enabled.
- ◊ **Sound / Strobe.** – both audible and visual parts of the sounders in the loop will be enabled. The panel “SND” output will be enabled.

- **ALERT/EVAC VOICE CYCLES:** This function alternates sounders during the Evacuate or Alarm event in progress, by switching from ON and OFF (strobe only) status according to set times; this means alternating sounders with a voice evacuation system can be managed directly on site.
 - ◊ **OFF** – time interval from 1 to 600 seconds, during the evacuation/alarm the sounders will only work in Strobe mode (for available models).
 - ◊ **ON** – time interval from 1 to 600 seconds, during the evacuation/alarm the sounders will work according to the “Evacuation Settings” menu – for example, when the option Sound / Strobe is selected, the sounders will sound and flash at the same time (for available models).
- **POLARITY** – inverts the sounder alternating operating mode from OFF/ON to ON/OFF.



CAUTION: To enable the alternating evacuation cycle function, you need to enter a time other than 0 in both ON and OFF fields. Otherwise, the alternating feature will not be enabled.

For example: the operating mode is set as “Sound / Strobe” and the alternating times are set as ON: 30 sec. and OFF: 40 sec.

When evacuation is underway at the protected site, system operation according to the evacuation settings will be as follows: the sounders will ring (evacuate tone) and flash for 30 seconds, then they will flash only for 40 seconds. The cycle will repeat until the system is Reset or the silencing button is pressed.

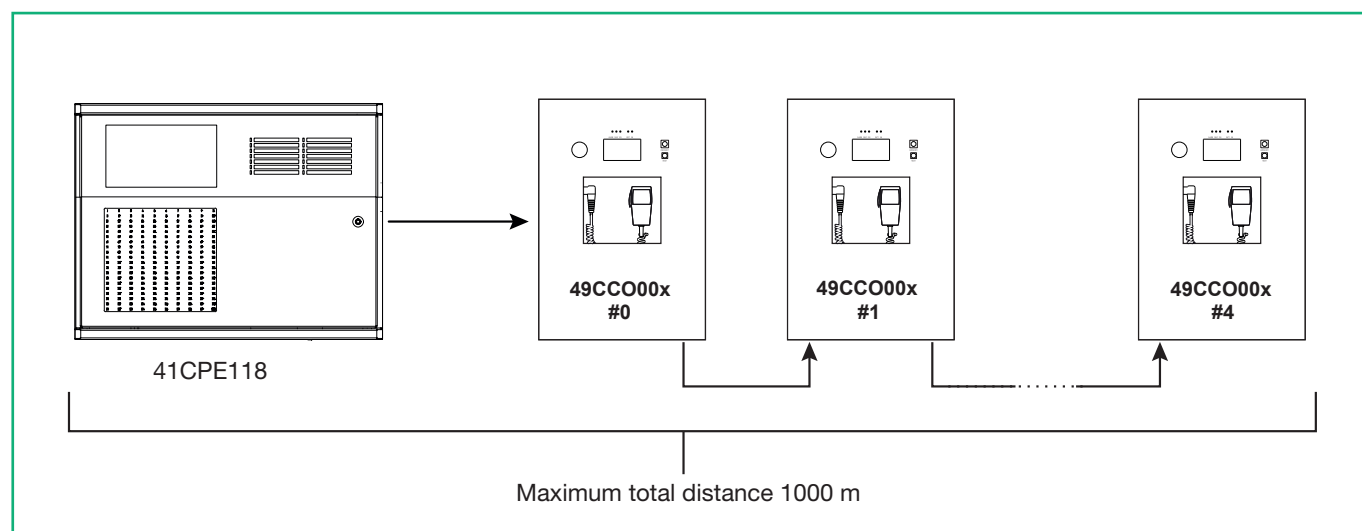
- **EVAC ZONES:** on accessing this function a new screen opens allowing the management and enabling of EVAC zones for the voice evacuation panel connected to the fire protection system via the interface provided (see paragraph below).

4.7.5 FIRE / EVAC panel interface module

Using this interface, Comelit 41CPE118 are designed for connection to up to 5 Comelit compact voice evacuation panels, product codes: 49CCO002, 49CCO004, 49CCO006. This creates a network where speakers scattered across various zones within the protected site will automatically be controlled and enabled in accordance with the programming in the dedicated fire panel menu.

- **Connecting the interface hardware**

Network connection between panel 41CPE118 and EVAC panels takes place via a CAT 5e SF/UTP PH30 cable, crimped with RJ45 plug in standard “B”, both on the fire panel side and the voice evacuation side.



Plug the cable into the Ethernet port of the interface installed in the fire panel, and into one of the 2 LINK ports inside the 49CCO00X panel. If there are several EVAC panels, use the second LINK Ethernet port to continue connecting the next EVAC panel to the network.

- **Programming the 41CPE118 fire panel side interface:**

To program the interface module, access the 41CPE118 panel menu, logging in as a level 3 user, and carry out the following steps:

SYSTEM – PROGRAMMING – PANEL – NETWORK – NETWORK SETTINGS

In the Network Settings menu, set the following parameters:

- ◇ **NETWORK STATUS** = ENABLED
 - ◇ **NETWORK TYPE** = 1.EVAC VOICE or 2.EVAC VOICE + LAN
1. Set EVAC VOICE if the system consists of a fire panel connected to one or more EVAC panels. This means panel 41CPE118 will enable the interface for communication between the Fire panel and the Evac panel(s).
 2. Set EVAC VOICE + LAN if the system consists of a fire panel connected via LAN to other 41CPE118 panels (for the communication of events or supervision via SW) and if it also needs to be connected to one or more voice EVAC panels.
- ◇ **NUMBER OF EVAC PANELS** = from 1 to 5 (enter the total number of EVAC panels connected to the system)
 - ◇ To continue programming the interface, you need to assign the relevant Fire Zone Group to the Fire Zones, as the enable commands to the Evac panels refer to alarms originating from Zone Groups.



CAUTION: to program this function correctly, the maximum number of Zone Groups that can be linked to Fire Zones is 1. Enabling of EVAC zones refers only to Zone Group A.

Example: Office Smoke Detector PT (Zone 1), Office Button PT (Zone 2), Office Cavity Ceiling PT (Zone 3)

In the example, fire Zone 1, 2, 3 will be part of Zone Group 1, which will have a specific Evac profile intended to alert occupants with an Alert or Evacuate message, depending on its programming.

After linking the individual system fire zones with the relevant zone groups, you need to pair the Alert and Evacuate messages with the Fire Zone Groups; proceed as follows from the 41CPE118 panel display:

SYSTEM – PROGRAMMING – PANEL – SOUNDERS MODE – MORE – EVAC ZONES

For each Zone Group (max. 48), set the type of message to play in the managed EVAC zones.

17/06/2020 14:06						
<div> <div>Zone group</div> <div>1</div> <div>+</div> <div>SAVE</div> </div>						
EVAC Zones	1	2	3	4	5	6
EVAC Panel 0	E	A	A	A	A	off
EVAC Panel 1	off	off	off	off	off	off
EVAC Panel 2	off	off	off	off	off	off
EVAC Panel 3	off	off	off	off	off	off
EVAC Panel 4	off	off	off	off	off	off

- **Zone group:** indicate the zone group on which you are working, then use the + & - buttons to change Group.
- **EVAC Zones:** there are six speaker output lines on the 49CCO00X Evac panel.
- **EVAC Panel X:** indicates the Evac panel connected to the system.
- **4 – Matrix:** enter the type of message to enable in that EVAC zone (speaker line); message types may be:
 - ◊ **A:** alert message
 - ◊ **E:** evacuate message
 - ◊ **OFF:** no message.

Save the changes.

Example: Enabling of Evac zones (speaker lines) for Evac panel 0 has been programmed, upon a fire alarm originating from Zone Group 1 on the 41CPE118 fire panel.

In this example, when an alarm is triggered by Zone Group 1, the EVAC panel plays the EVACUATE message in audio zone 1, and the ALERT message in zones 2, 3, 4 and 5. Audio zone 6 is on OFF and no message will be played on that line.

Note: When panel 41CPE118 enters Evacuate mode (by means of manual or automatic enabling), all audio zones programmed for Evac panels will automatically switch to the Evacuate message.

- **Programming the 49CCO00X EVAC panel side:**

To configure the parameters for the Evac panel(s) connected to the 41CPE118 fire panel, proceed as follows on the display:

MAIN MENU – CONFIGURATION - SET RACK CONFIG - SYSTEM

In System racks: enter the total number of 41CPE118 + 49CCO00X panels in the system (max. 6).

In Rack address: ID address of the EVAC panel on which you are working (from 0 to 4).

Press ESCAPE and SAVE.

For example: if we are using a 41CPE118 panel and one EVAC panel we need to set:

In System racks: 2

In Rack address: 0

If, on the other hand, the system consists of a 41CPE118 panel and 2 EVAC panels, set:

In System racks: 3 (for both Evac panels)

In Rack address: 0 (for the first Evac) and 1 (for the second).



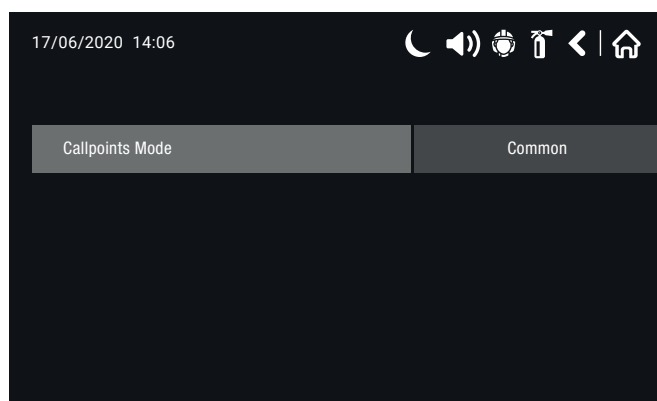
CAUTION: the numbering of EVAC panels begins at 0 and not 1.

4.7.6 Callpoints mode

In this submenu the installer can choose a mode for the alarm triggered after the flexible element of the manual callpoint button has been pressed.

Press the active button to change the operating mode, from:

- **Common** - a common alarm is generated, regardless of the zone to which it is linked.
- **Zonal** - an alarm is generated only for the zone with which the manual callpoint button is linked.



After completing the changes, press “Save”.

4.7.7 Selecting the language

Here the installer can choose a language from the options available on the system.

To change the language for the 41CPE118 panel menus, simply press the button showing the desired language and save the change.

4.7.8 Delay (T1)

Here the installer can set a common delay time for the enabling of all outputs (from 0 to 60 seconds).

Used for the first alarm check.



CAUTION: if the zone delay time T2 is set to 0, the common delay time T1 will be ignored.
See APPENDIX E - Operating algorithm “Two alarm status levels”.

4.7.9 Printer

Here the installer can choose the model of thermal printer connected to the fire panel.

The following models are available: 41PRN100, KAFKA, DATECS. In addition to the printer model, the same menu can be used to set ESPA 4.4.4 output communication protocol from the RS232 port, if no printer is connected to it.

The parameters for port RS232 when ESPA 4.4.4 protocol is selected are as follows:

- Baud rate - 9600
- Parity bit - none
- Stop bit - 1
- Check - none

Select the desire model and then press "Save".

4.7.10 Company Logo

This menu can be used to enter some additional information, displayed on 4 different rows.

Press the active field next to the row number to enter the text (40 characters max.), then press "Save".

The information entered is presented in the middle of the screen, as a screensaver, when the panel enters standby mode.



Company Logo	
Row 1	
Row 2	
Row 3	
Row 4	

4.8 Restore Default

In this menu the installer can restore the factory settings for the entire system configuration.

The panel asks for user confirmation before resetting the parameters.

4.9 Save

This button saves panel periphery devices or devices installed on the Loop on a mass scale.

4.10 PROGRAMMING AND PAIRING TO CLOUD

INTRODUCTION

The Comelit Cloud infrastructure now has a “System management” section, which can be accessed via the MYComelit APP (available for Android and iOS) and via the web address “<https://pro.comelitgroup.com/>” – “My Comelit” section, which can be used to establish a secure and continuous remote connection with the various Comelit devices, including 41CPE118 LogiFire control panels equipped with the latest firmware versions, thereby allowing full remote control of the systems.

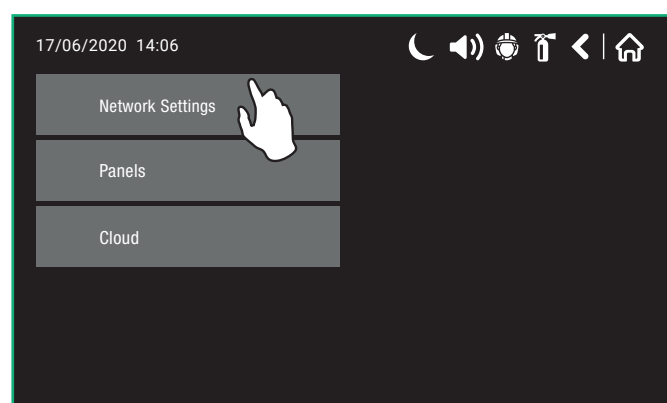
The control panel's Ethernet connection to the Comelit Cloud takes place via a LAN RJ45 port located on the motherboard. Please refer to the image in chapter 3.3 – Element 1 - LAN - RJ45 Port for information concerning the physical connection of the network.

Note: to allow connection to the Comelit Cloud, the LogiFire control panel must be updated to Firmware version 1.1.1 or higher.

REGISTRATION FOR THE CLOUD AND PARAMETER PROGRAMMING

Programming of the control panel and the parameters relating to Cloud functions can be accessed via level 3.


Select, in sequence, SYSTEM - PROGRAMMING - CONTROL PANEL - NETWORK - NETWORK SETTINGS and press “ADVANCED”.

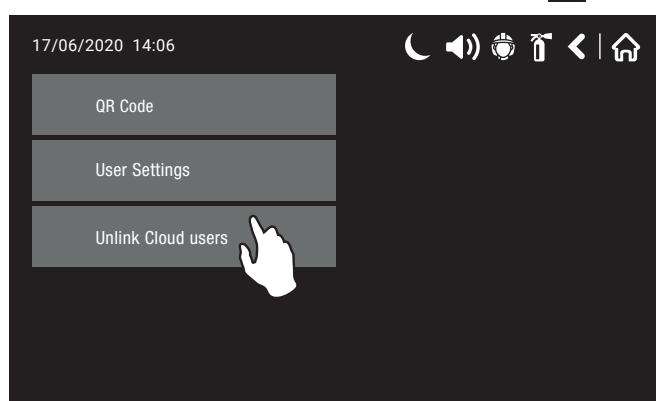


17/06/2020 14:06					☾	🔊	🔧	🏠
Panel IP Address	172	25	160	202				
Netmask	255	255	255	0				
Router	172	25	160	250				
Panel MAC Address	90C682806EA1							
Redundancy	OFF							
Main DNS	8	8	8	8				
Secondary DNS	8	8	4	4				

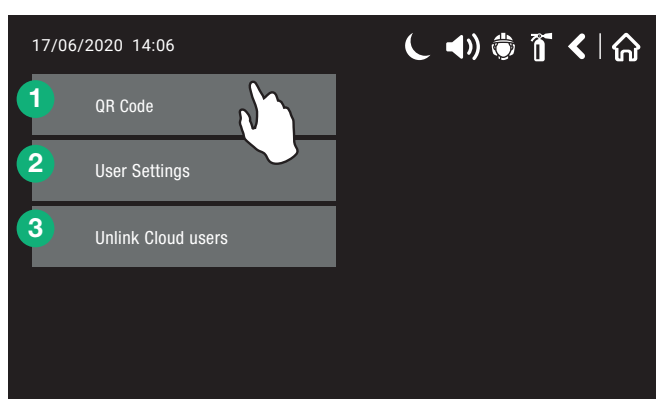
The enter the IP address, Netmask and Gateway to be assigned to the control panel based on the installation site network class.

Note: do not change the main and secondary DNS parameters unless specifically requested by your network administrator.

Once you have saved the parameters, return to the NETWORK menu by pressing “”



Press “Cloud” to view the following menu



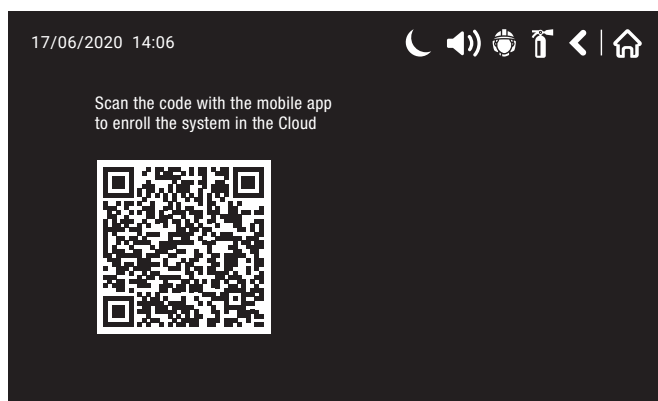
1 – Press “QR Code” and, if this is the first time programming has taken place, assign the control panel the name under which it will appear on the Cloud Web portal and on the APP (this name will be shown in the relevant network settings field for the control panel).

Note: if a name had already been assigned to the control panel on a previous occasion, we recommend entering the existing name.



After entering the name of the control panel, a QR Code will appear on the display. This can be scanned directly using the MYComelit APP in the dedicated “System Management” section (“+”), to complete registration on the Cloud Web portal.

If not using the MYComelit application, the operator can scan the QR Code with a suitable reader to reveal the unique code and enter it manually on the Cloud Web portal itself, in the section “add new antifire device”.

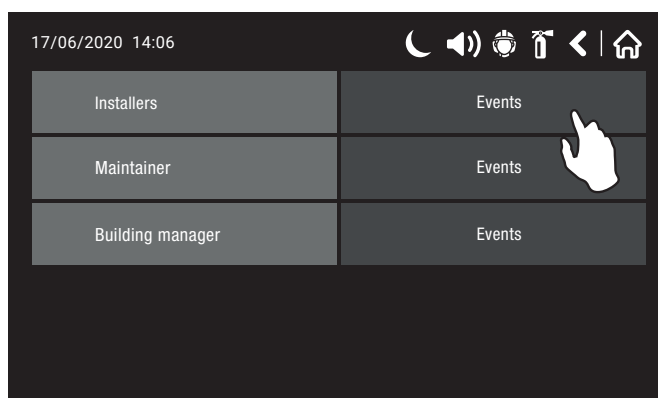


Note: when creating a new site in your dashboard on the Cloud Web portal and subsequently adding an antifire device, please refer to the “user guide” which is available in the bottom section of the same web page. (https://staticpro.comelitgroup.com/filescms/mysites/mu_mysites_installer_IT.pdf)

2 – When you press “USER SETTINGS”, the display shows the 3 different types of role that may be attributed to the operators working with the control panel via the Cloud Web service:

- **INSTALLER:** reserved for professional operators responsible for installing and commissioning the system
- **SERVICE TECHNICIAN:** reserved for professional operators who carry out maintenance work on the system
- **BUILDING MANAGER:** reserved for professional operators who oversee the system or are responsible for building safety

If necessary, contact the local safety manager for further clarification regarding the assignment of roles appointed for initial checking, regular checking, surveillance and maintenance procedures, as well as to ensure in general that fire detection systems adhere to current local directives and official regulations.




For each type of role, press the corresponding “EVENTS” option to enable or disable receipt of emails, Push notifications (received via MYComelit APP) or text alerts in the Message Center (available on APP and Cloud Web portal) on the basis of 3 different event types, as shown in the picture below:

17/06/2020 14:06

Fire Events	E-Mail	Enabled
	Push Notification	Enabled
	Message Center	Enabled
Fault Events	E-Mail	Enabled
	Push Notification	Enabled
	Message Center	Enabled
Warning Events	E-Mail	Enabled
	Push Notification	Enabled
	Message Center	Enabled

Each different "FIRE User" role will therefore have the option of enabling/disabling receipt of each individual alarm event type – i.e. ALARM, FAULT and TECHNICAL ALARMS – as required.

Once the changes have been made, return to the previous menu by pressing “” and select “SAVE”.

3 – Press “REMOVE CLOUD USERS” to remove, upon receipt of a confirmation message, the control panel registration from the Cloud, with the device being deleted from all previously associated Cloud accounts.

17/06/2020 14:06

Are you sure to unlink all cloud users of this panel?

Yes

No

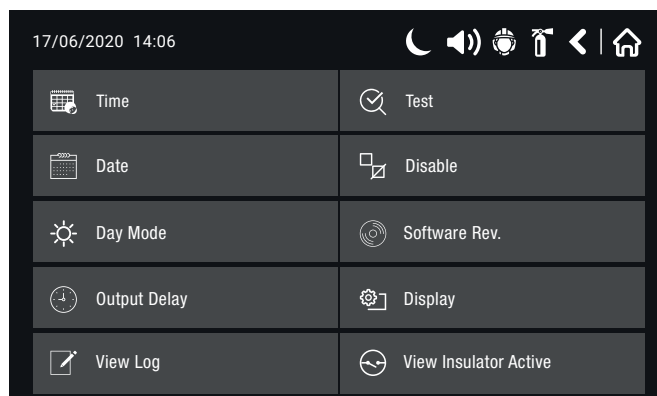
Note: ONLY perform this procedure if you are sure you want to disassociate all the accounts connected to the fire control panel.

5. Maintenance

5.1 Maintenance Menu

To access the maintenance menu screen, select the following in sequence:

SYSTEM - MAINTENANCE

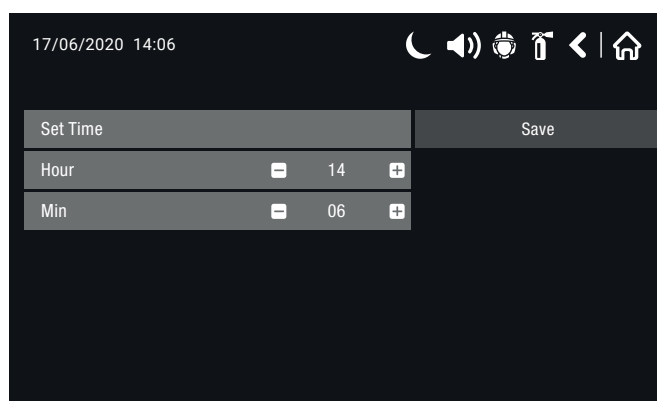


5.2 Entering the time

Press “Time” on the Maintenance Menu to set the current time.

Use the + & - buttons to change the parameters, or enter them directly by pressing the number field.

Press “Save” to confirm the changes.

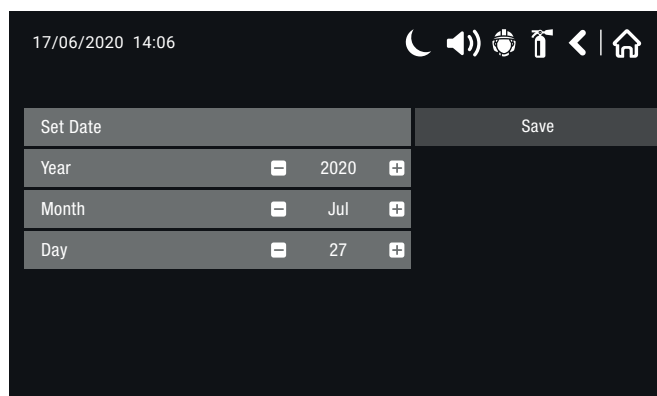


5.3 Entering the date

Press “Date” on the Maintenance Menu to set the current date.

Use the + & - buttons to change the parameters, or enter them directly by pressing the number field.

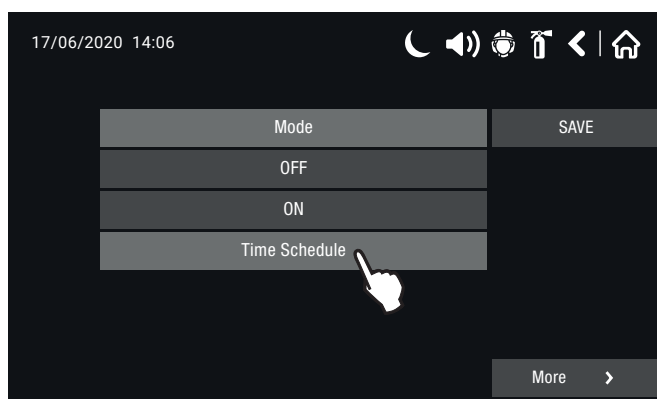
Press “Save” to confirm the changes.



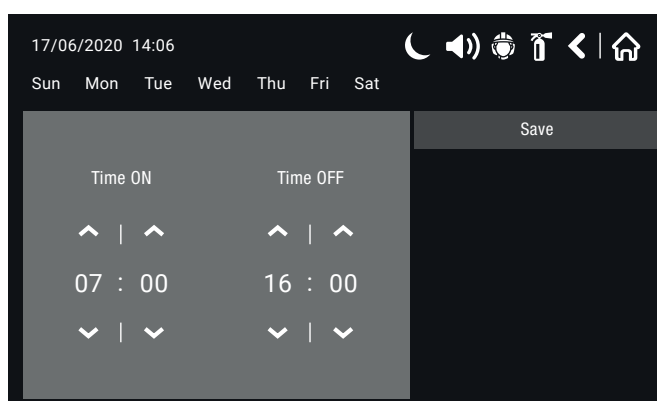
5.4 Day Mode

Press “Day Mode” on the Maintenance Menu to set the daytime schedule for detector operation.

Day Mode can be Enabled (ON), Disabled (OFF) or on a Time Schedule:




In this mode the detectors use the alarm level that has been programmed as Day Mode. Usually this is a much lower sensitivity level. This reduces the risk of false alarms caused by dust, cigarette smoke, etc. In Night Mode the sensitivity of the detectors is higher.



In Time Schedule mode, the start time (the time at which Day Mode is enabled) and end time (the time at which Night Mode is enabled) must be entered. Times are set for every day of the week. The 41CPE118 panel starts in Night Mode by default.

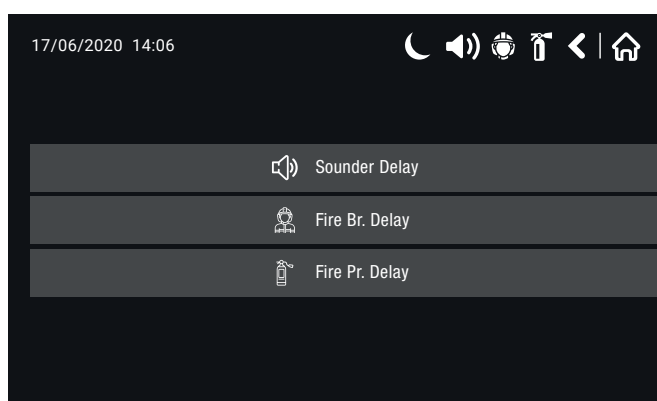
Day Mode is represented with the icon  in the “System Status” field on the panel.

If Night Mode is set, the icon shown by the panel will be as follows: .

Save any changes made by pressing SAVE.

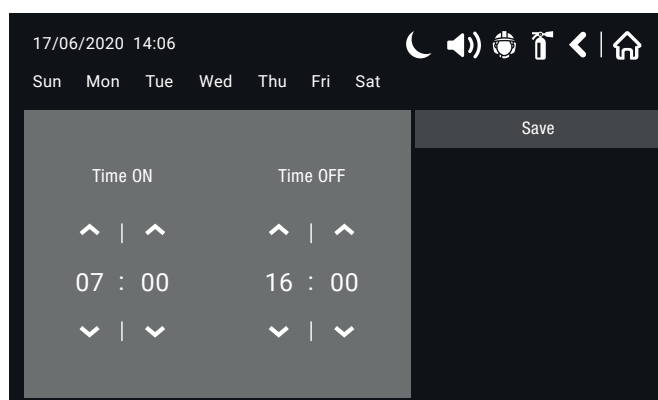
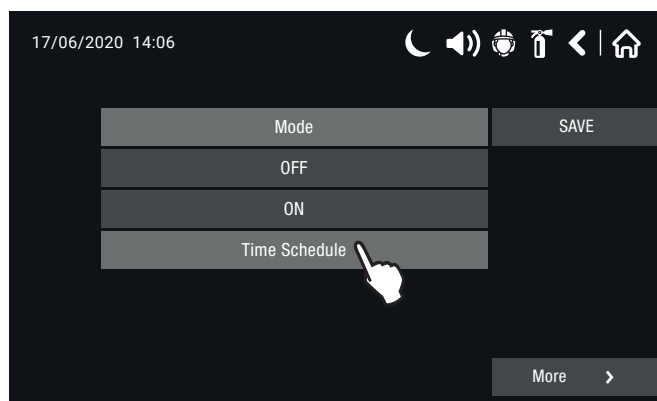
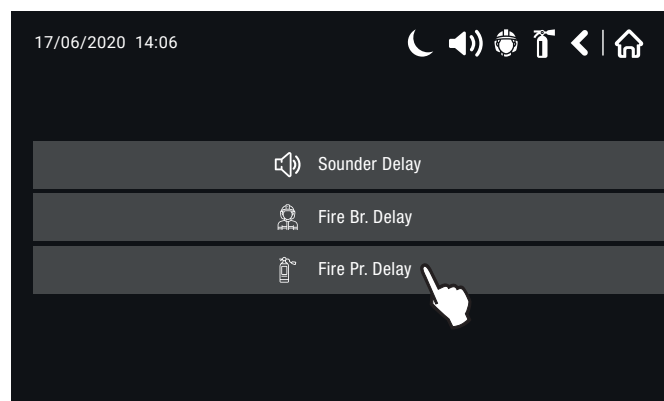
5.5 Setting Output Delays

Select the “Output Delay” from the Maintenance Menu to access the submenu used to enable / disable panel delays.



The following delays can be set:

- **Sounder Delay:** a delay can be set to postpone the activation of sounders on the Loop and the panel SND output. This delay offers the option of checking the authenticity of the alarm before the sounders are activated in the protected site. When “Delay” is enabled, the “**DELAY**” LED on the front of panel 41CPE118 is activated.
- **Fire Br. Delay (alarm transmission):** a delay can be set to postpone the enabling of the Fire Brigade (Fire R) output on the panel. When “Delay” is enabled, the “**DELAY**” LED on the front of panel 41CPE118 is activated.
- **Fire Pr. Delay:** a delay can be set to postpone the enabling of the Fire Protection (Fire P) output on the panel. When “Delay” is enabled, the “**DELAY**” LED on the front of panel 41CPE118 is activated.

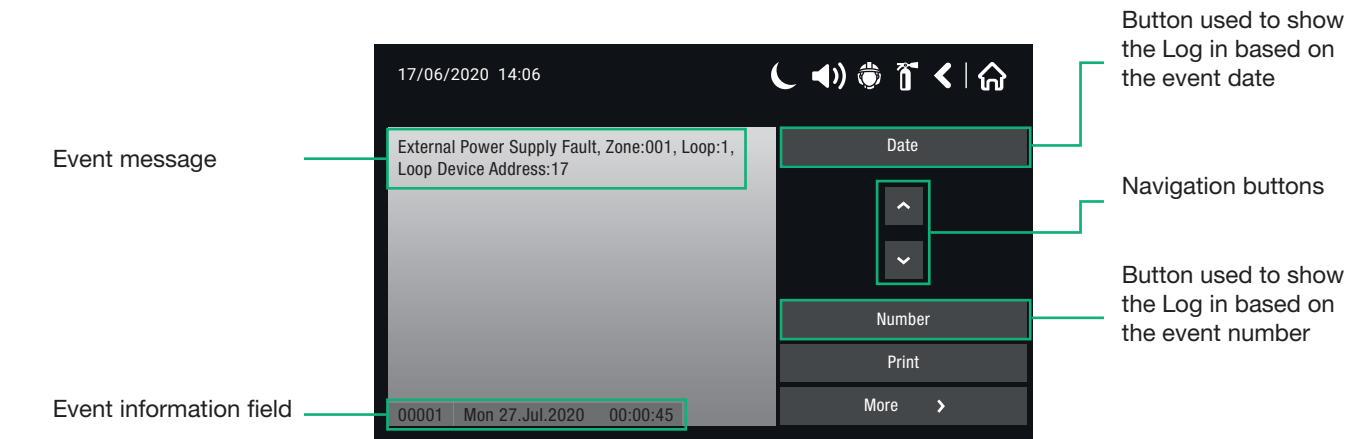


In Schedule mode, the start time (the time at which the delay is activated) and end time (the time at which the delay is deactivated) must be entered. The time is set for every day of the week. When “Delay” is enabled, the “**DELAY**” LED on the front of panel 41CPE118 is activated.

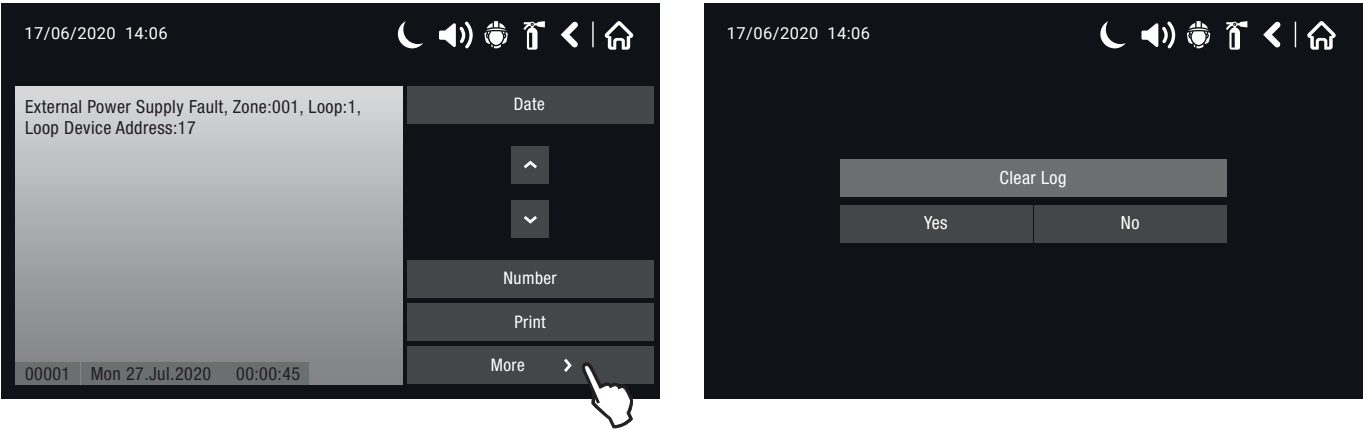
After editing, save the changes.

5.6 View Event log

This submenu provides access to the screen showing the events recorded on the panel.
The 41CPE118 fire panel can store up to 10,240 events, which can be displayed by date or by number.



The installer can press “MORE” to clear the entire event log, after confirming with “YES”.

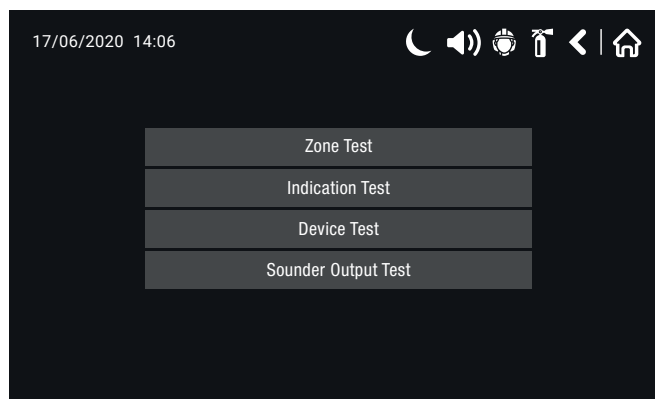


5.7 Tests

This menu offers the option of testing system operation and panel indications.

After entering the TEST menu, the installer can carry out the following:

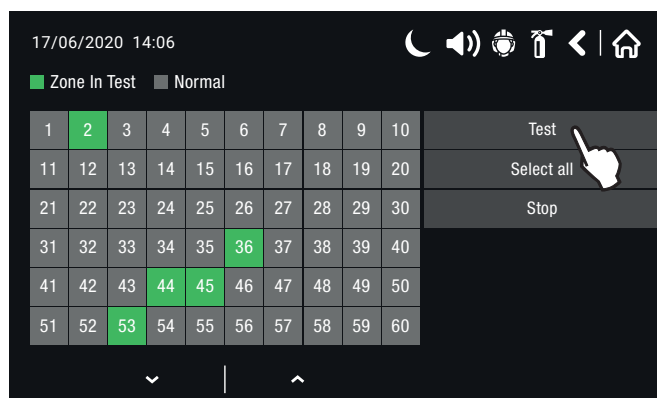
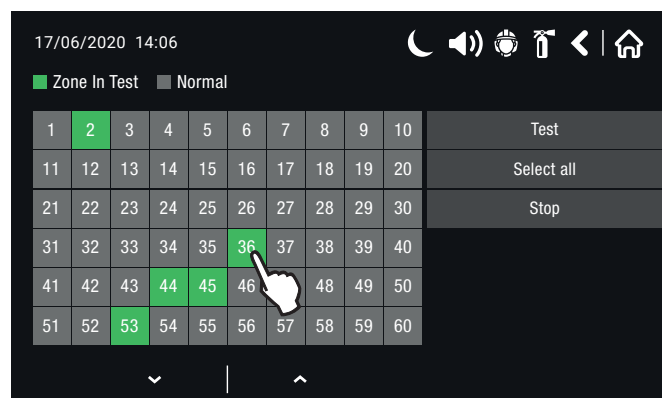
- Zone Test;
- Indication Test (testing the internal buzzer and front LEDs);
- Device Test;
- Sounder Output Test (SND) for the panel.



5.7.1 Zone Test

On accessing the Zone Test menu, a screen appears showing the map of the first 60 zones.

Use the up & down arrows to scroll through the remaining zones, up to number 200.



Green: zone in test

Grey: zone not in test

To start the test, select the number of the zone or zones (the zone turns green) and press “Test”.

The TEST LED on the front of the panel comes on and remains lit steadily.

During Zone Test mode, the installer can activate the detectors / buttons in the relevant zone (applying the fog / heat generator), so as to make sure operation is taking place correctly.

If the test is passed successfully, the panel display shows the message “Alarm Test”, followed by the information relating to the device in alarm (Zone Number, Loop and Device).

The LED for the alarmed zone comes on during the test.

To stop the zone test, press “Stop” - the TEST LED on the door switches off and the colour of the zone on the zone test screen returns to its default setting (grey).

All zones can be selected at once by pressing “Select all”.



CAUTION: During a zone fire test, the programmed logic inputs will not be enabled.

If input modules are connected in the zone in test condition, in the event of their activation the logic signals will not be transmitted.

5.7.2 Indication Test

This test allows the installer to make sure the LED indications on the front panel and the audible signals from the internal buzzer are working properly.

The test ends automatically 6 seconds after it was started.

5.7.3 Device Test

Service menu.

5.7.4 Sounder Output Test

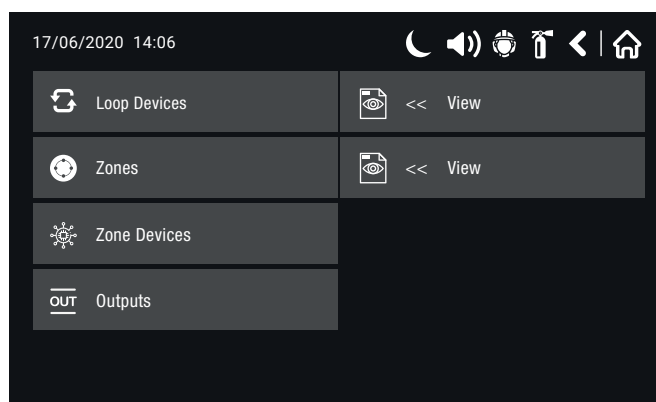
This function allows the installer to enable the monitored output for the connection of sounders (SND) on panel 41CPE118.

To start the test, press ON.

The SND output will be enabled and the TEST LED will come on and remain lit steadily. To end the test, press OFF.

5.8 Disablements

The installer can use this menu to enable / disable fire detection panel loop devices, zones and outputs. The menu screen and possible options are shown below.

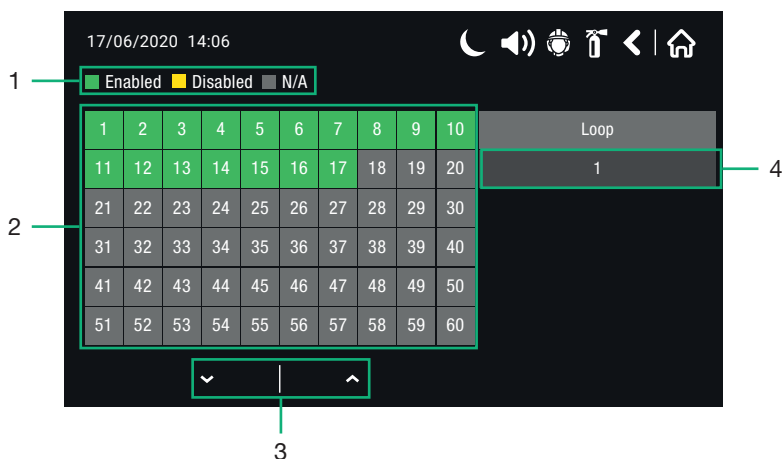


- **Loop Devices:** button used to show / disable loop devices
- **Zones:** button used to show / disable system zones
- **Zone Devices:** button used to show loop devices linked to the zones
- **Outputs:** button used to disable the panel monitored outputs
- **View:** button used to show the status of loop devices
- **View:** button used to show the status of the zones

5.8.1 Disabling Loop Devices

The “Loop Devices” button is used to bring up the screen for configuring every single device on the loop, as seen previously in the device programming menu - paragraph 4.3.2; from this point the user / installer can examine device status and parameters and, if necessary, disable them.

By pressing “View” next to “Loop Devices”, you can view the status of all devices in each Loop. If they are green, the devices are present; if they are yellow they are disabled; and if they are grey, no device is linked to that address (free address). Press the number of the relevant device to move to its configuration screen.



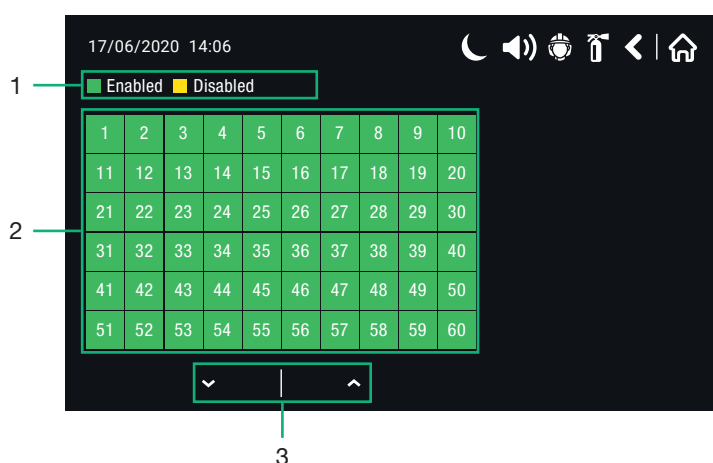
1. Device status icons
2. Loop Devices (1-250 per loop)
3. Buttons used to scroll through the list of devices
4. Button used to select the loop number

If a device is disabled, the fire panel will generate the message “Loop Device Disabled”, while the “DISABLEMENTS” LED on the front will be activated. A disabled device cannot generate messages for the panel. When all devices (sensors or buttons) for a zone programmed in normal mode are disabled, or all devices except one for a zone in “Two Devices” mode are disabled, the zone is automatically disabled, generating the message: “ZONE DISABLED”.

5.8.2 Zone Disabling

The “Zone” button is used to bring up the screen for configuring every single panel zone, as seen previously in the zone programming menu; from this point the user / installer can examine the parameters for the various zones and, if necessary, take steps to disable them.

By pressing “View” next to “Zones”, you can view the status of all the zones present. If they are green, the zones are present; if they are yellow they are disabled. Press the number of the relevant zone to move to its configuration screen.





1. Zone status icons
2. Zones (1-500)
3. Buttons used to scroll through the list of zones

If a zone is disabled, the fire panel will generate the message “Zone Disabled”, while the “DISABLEMENTS” LED on the front will be activated.

5.8.3 Zone Devices

The user / installer can use the “Zone Devices” button to view all the addresses of all devices grouped by Loop and by Zone. To change the loop number, press the button by the “Loop” field.

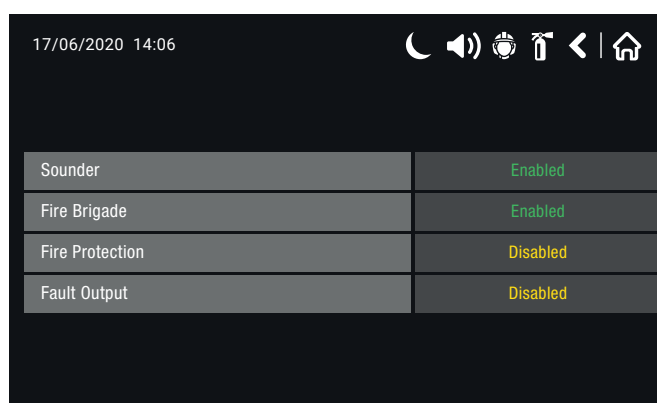
To select the zone number, press the button by the “Zone” field. Use the virtual keypad to enter the zone number and press OK.

The addresses of the devices belonging to the selected loop or zone are shown with a green background, otherwise the background remains grey. Use the   buttons to scroll through the list of devices. Press the number of a present device (green) to move to its configuration screen.

5.8.4 Output Disabling

The user / installer can use the “Outputs” button to Enable or Disable the monitored outputs for panel 41CPE118:

- Sounders (SND)
- Fire Brigade (FIRE R)
- Fire Protection (FIRE P)
- Fault (FAULT)



Sounder	Enabled
Fire Brigade	Enabled
Fire Protection	Disabled
Fault Output	Disabled

To disable / enable an output, press the button next to the desired output; if it is enabled the button will be green, if disabled it will be yellow.

If an output is disabled, the fire panel will generate the message “Output Disabled”, while the “DISABLEMENTS” LED on the front will be activated.



CAUTION: the disabled output will not be enabled by its enabling event.

After editing, save the changes.

5.9 Software Revision

On accessing the “Software Revision” menu from the maintenance menu, you can view the screen with the main CPU software version and the firmware update loaded on the panel.

This menu is also used to update the panel firmware.



CAUTION: Before proceeding with the firmware update, **SAVE** the system programming on the local computer using programming software (file extension *. * TDF); it is recommended to perform a **Restore Default** using the reset Jumper inside the panel.

Before updating the firmware on panel 41CPE118, download the latest firmware version (file extension *. * BIN) from our official website www.pro.comelitgroup.com.

To update the firmware, proceed as follows:

1. Save the firmware file (*.bin) to the local computer;
2. Save the programming using the programming software;
3. Access the “Software Revision” submenu from the Maintenance menu. The screen will show the current panel software version;
4. Connect the panel to the PC using the USB cable: from Normal USB-A (PC side) to Micro USB-B (panel side);
5. Wait for the PC to recognise the new removable disk;
6. Copy the new update image file (*.bin) into the removable disk folder;
7. Once the image file has been copied, disconnect the removable disk, selecting the Eject option from its dialogue box (right-click with the mouse and select Eject);
8. If the image file data is correct, the panel starts the firmware update procedure for the main microprocessor, emitting some short beeps;
9. Disconnect the USB cable;
10. If the fw update was successful the panel will restore itself automatically once it has finished updating.

5.10 Display

This menu offers the option of making some adjustments to the parameters for the touch display of the panel.

- **Coordinates**



CAUTION: *Touchscreen display calibration must be carried out using a touchscreen (or PALM) stylus.*

To proceed with display calibration, select the following in sequence:

SYSTEM – MAINTENANCE – DISPLAY – COORDINATES

Display calibration is performed in 5 steps.

1. The display shows the message: **“Click the circle in upper left-hand corner”**.
The user should press the indicated point in the top left-hand corner of the display 3 times. Then continue with the Coordinates calibration process.
2. The display shows the message: **“Click the circle in upper right-hand corner”**.
The user should press the indicated point in the top right-hand corner of the display 3 times. Continue with the Coordinates calibration process.
3. The display shows the message: **“Click the circle in lower right-hand corner”**.
The user should press the indicated point in the bottom right-hand corner of the display 3 times. Continue with the Coordinates calibration process.
4. The display shows the message: **“Click the circle in lower left-hand corner”**.
The user should press the indicated point in the bottom left-hand corner of the display 3 times. Continue with the Coordinates calibration process.
5. The display shows the message: **“Click the circle in center”**.
The user should press the indicated point at the centre of the display just once.

If the calibration process was successful, the panel automatically reverts to the initial screen.

If calibration was not successful, the message **“Calibration Unsuccessful!!”** will appear.

The new data entered will be ignored. Perform display calibration again.



Click the circle in
upper left-hand corner
3 left



Click the circle in
upper right-hand corner
3 left



Click the circle in
lower left-hand corner
3 left



Click the circle in
lower right-hand corner
3 left



Click the circle in center

- **Power Safe Backlight:**

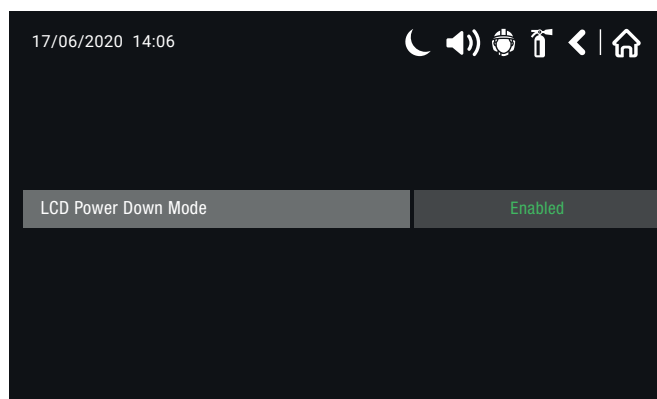
This menu can be used to enable or disable the “Power Safe Backlight” energy saving mode, by enabling the option “LCD Power Down Mode”.

When the “LCD Power Down Mode” is enabled, the display backlighting is disabled automatically after 60 seconds of inactivity (the user does not touch the screen).

After editing, save the changes.



CAUTION: to comply with standard EN54-2, “LCD Power Down Mode” must be disabled!



5.11 View enabled Isolators

This menu can be used to view the enabled isolators for the addressed devices in each panel Loop.

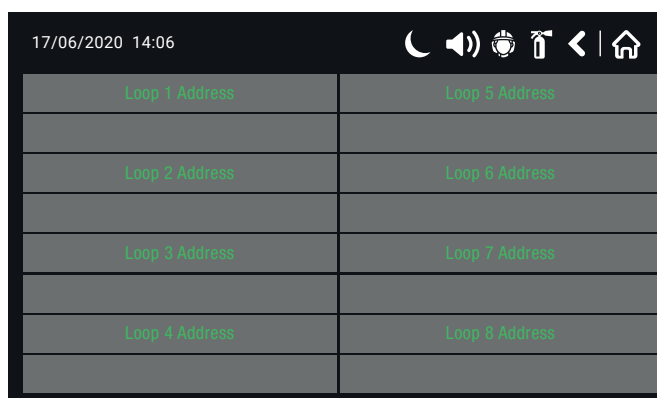
To access the menu, select the following in sequence: **SYSTEM - MAINTENANCE – VIEW ISOLATOR ACTIVE**.

The addresses of devices with enabled isolators are shown in the “Address” field for their respective Loops.



CAUTION: every Comelit addressed Loop has a built-in isolator, except mini module 41IOM010.

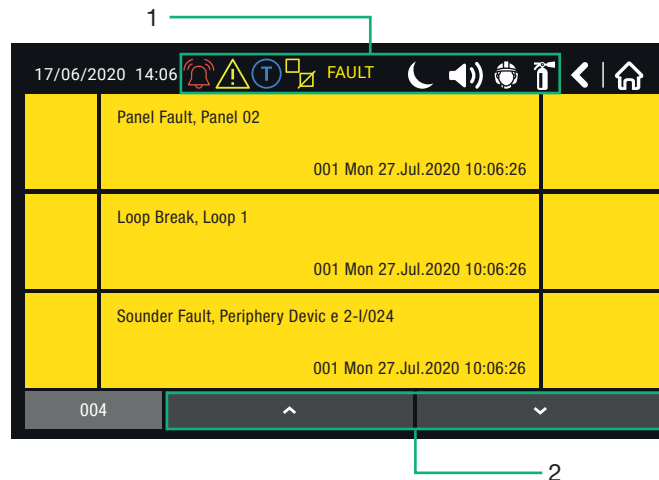
The isolator of a device can be enabled in the event of a short-circuit in the device or in its input or output Loop line.



6. USER GUIDE

6.1 System status bar

Indicates the current status of fire panel 41CPE118, showing detailed information regarding the operating mode (day / night), the status of outputs: Sounders, Fire Brigade and Fire Protection, etc.



1. Button used to show system status

This status bar can be shown at all access levels and at any time, regardless of whether the panel is in Programming or Maintenance mode.

The icons for Alarms, Faults, Warnings, Disablements and Tests are shown based on the system status and the active events at that moment; press them to view the whole message.

2. Navigation buttons

6.2 Panel Status icons











1. Panel operating mode icon

2. Sounder Output status icon





3. Fire Brigade Output status icon

4. Fire Protection Output status icon





6.2.1 Panel 41CPE118 mode icons

Icon	Description
	LOADING mode - loading configuration data from permanent storage.
	SAVE mode - saving configuration data to permanent storage.
	Day operating mode - processing of signals from the sensors takes place with reduced sensitivity (set for each sensor).
	Night operating mode - processing of signals from the sensors takes place with increased sensitivity (set for each sensor).
	ADDRESSING mode - the panel is in operating mode for setting or changing device addresses, using the self- or auto-addressing procedure; the panel does not follow the status of the devices and is idle for other operations until the addressing procedure is complete.
	FATAL error or fault - the panel is unable to operate further.
	Evacuation with common delay T1 set at all outputs - flashes together with the status icon for the output(s) at which a delay time is set. In the icon relating to the status of the output there is a countdown to its enabling. The action is accompanied by a continuous audible signal until the output is enabled.
	Evacuation with delay T2 set for output (sounders, fire, fire protection) - flashes together with the status icon for the output(s) at which a delay time is set. In the icon relating to the status of the output there is a countdown to its enabling. The action is accompanied by a continuous audible signal until the output is enabled.





6.2.2 “Sounder Output” status icons

Icon	Description
	Sounders activated.
	Sounder on Loop or sounder connected to SND output in fault condition.
	Sounders not activated – output in standby.
	Sounders disabled – output disabled.

6.2.3 “Fire Brigade Output” status icons

Icon	Description
	Fire Brigade output enabled.
	Fire Brigade output in fault condition.
	Fire Brigade output not enabled - output in standby.
	Fire Brigade output disabled - output disabled.

6.2.4 “Fire Protection Output” status icons

Icon	Description
	Fire Protection output enabled.
	Fire Protection output in fault condition.
	Fire Protection output not enabled - output in standby.
	Fire Protection output disabled - output disabled.

6.3 Messages

The maximum number of messages that can be displayed at once on the panel display is 3. The order in which they are shown is:

- 1 - the first message received;
- 2 - all messages, from first to last. Each message is scrolled using the navigation arrows;
- 3 - the last message received.

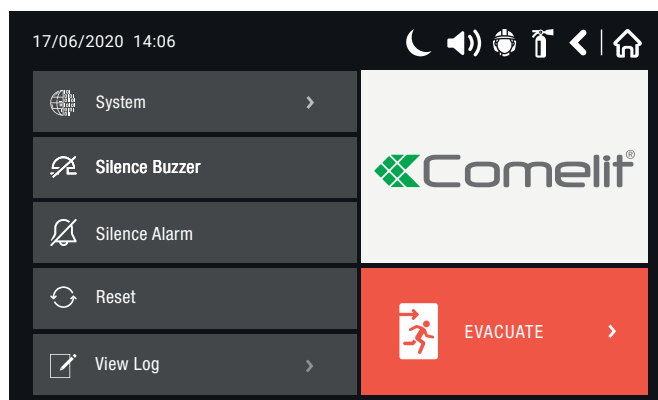
To make reading easier, the messages have different backgrounds depending on the type of event: Red if it is an Alarm message, Yellow for Faults and Disablements, Blue for technical Warnings and Light Grey for Test messages.

6.4 Access levels

The 41CPE118 fire panel has 3 access levels. The first level can be accessed by users without having to enter a password. Levels 2 and 3 can only be accessed after a password has been entered.

The password should be entered in the menu to change access levels. Depending on the access level, users have different limitations in terms of panel procedures.

6.5 Main Display screen



- **“Silence Buzzer” button:** press the button to silence the buzzer inside the panel. The button is active at access levels 1, 2 and 3.
- **“Delay Override” button:** the button is active at access levels 1, 2 and 3. After it is pressed, all output delays currently enabled are reset.
- **“Silence Alarm” button:** the button is active at access levels 2 and 3. Pressing the button inhibits all active sounders and the delays associated with them; the “SILENCING” LED is activated.
- **“Reset” button:** the button is active at access levels 2 and 3. On pressing the button, all active statuses are reset and the fire panel reverts to normal operating mode.
- **“Evacuate” button:** the button is active at access levels 2 and 3. After pressing this button, all sounders and outputs programmed or associated with the event are enabled, the “FIRE ALARM” LED is activated and an Evacuate message is shown on the display.

7. Appendices

Appendix A: Error messages shown on the 41CPE118 fire alarm panel display:

Message text	Description
Alarm	Common Fire Alarm
Loop Device Type Error	A different type of device than the specified type has been found at the address.
Loop Device Fault	The device is not responding (removed or faulty).
Double Address	Devices with the same address are present on the Loop.
PreAlarm	Fire alarm originating from a sensor/button for a zone set as "2 Devices" or "Double alarm".
Evacuate	Manual button activated, or the "Evacuate" panel button.
Loop Device Input Fault	Fault at the input of a Loop device.
Loop Device Output Fault	Fault at the output of a Loop device.
Loop Device Sounder-Fault	Sounder on Loop faulty (short-circuit or line opened).
Fault Output - Fault	Fault at the panel fault output (short-circuit or line opened).
Fire Brigade - Fault	Fault at the panel Fire Brigade output (short-circuit or line opened).
Fire Protection - Fault	Fault at the panel Fire Protection output (short-circuit or line opened).
Loop Device Disabled	A Loop device has been disabled.
Chamber Fault	Sensor chamber photodiode fault.
Clean Me Now	Photodiode inside the sensor chamber dirty.
TEST ALARM	Alarm originating from a sensor for a zone in Test mode.
Signal Blockage	Signal inhibited at the linear barrier.
Hi Signal	Signal too high from the linear barrier.
Drift Alert	Balancing threshold reached in the sensor.
Earth Fault	Dispersion to earth < 10k.
Battery Low	Panel battery low.
Charger Fault	Fault in the battery recharging circuit.
Battery Loss	Panel battery loss.
AC Loss	230 V main power supply loss.
Sounder Fault	Fault at the panel sounder output (short-circuit or line opened).
AUX 24V Fault	Short-circuit (no power) at the AUX 24V output.
AUX 12V Fault	Short-circuit (no power).
Periphery Device Fault	A periphery device is not responding (removed or faulty).
Periphery Device Type Error	A different type of device than the specified type has been found at the address.
External Power Supply Fault	Problem with the external power supply (battery low, battery loss, charger fault, main power supply loss or dispersion to earth).
External Power Supply Loss	There is an external power supply loss.
Zone Disabled	The zone is disabled.
Zone In Test	The zone is in test mode.
Sounder Disabled	The Sounder output has been disabled.
Fire Brigade Output Disabled	The Fire Brigade output has been disabled.
Fire Protection Output Disabled	The Fire Protection output has been disabled.
Fault Output Disabled	The Fault output has been disabled.
Reset	The control panel has been reset.
Silence Alarm	The sounders have been silenced.
Ram Error	Error in RAM.
Flash Error	Error in permanent storage.
Panel Fault	Connection with the other panel interrupted (when two or more panels are connected in a network).
Double IP address	Panel IP address duplicated.
Double Panel number	Panel number duplicated (when two or more panels are connected in a network).

Message text	Description
Double IP address and Panel number	Panel IP address and number duplicated (when two or more panels are connected in a network).
New Periphery Devices Found	The panel has recognised new periphery devices in the panel configuration.
New Loop Devices Found	New devices have been recognised on the Loop.
Loop Short	Short-circuit in the Loop.
Loop Break	Loop interrupted.
Loop Zero Address	One or more unaddressed devices is/are present on the Loop.
Activated output	Output enabled.
Network Fault	Fault in the RS485 network or the LAN.
Wrong Error Code	Unknown fault message code.
Alarm Output	Alarm or alarm event from an output.
Earth Fault function DISABLED	The earth fault indication has been disabled from the panel menu.
Transmitting device active	The Fire Brigade output has been enabled.
Extinguishing output active	The Fire Protection output has been enabled.
Sirens active	The Sounder output has been enabled.
User log off	Logout from the "User" programming level.
Installer log off	Logout from the "Installer" programming level.
User log on	Login at "User" programming level.
Installer log on	Login at "Installer" programming level.
GAS ALARM !	Gas alarm from device 41IOM010.
WARNING!	Technical warning from device 41IOM010.
Battery High Resistance	High ($R_i > 0.3 \Omega$) resistance value inside the battery. The battery should be replaced with a new one immediately!
High Resistance Disabled	The high resistance inside battery indication has been disabled from the panel menu.
Internal Buzzer Disabled	The internal buzzer has been disabled from the panel menu.

Appendix B: Comelit addressed device models:

1. Addressed detectors:

- **41RCS100 – Heat detector.** Option of working with 3 temperature classes: A1R* (58°,RoR), A2S* (60°), BS (75°).
* Certified Classes.
- **41RFU100 – Optical smoke detector.** Option of setting 4 sensitivity levels: High, Normal, Middle and Low.
- **41RML100 – Combined detector (optical smoke + RoR heat).** Option of setting 4 sensitivity levels: High, Normal, Middle and Low. Option of DISABLING the optical or heat part.

2. Addressed Manual Buttons:

- **41APM000** – Indoor manual button.
- **41PAE020** – Outdoor manual button IP67.

3. Addressed modules:

- **41IOM010** – Mini Module with 1 monitored input.
- **41IOM040** – Module with 4 monitored inputs.
- **41IOM022** – Module with 2 monitored inputs + 2 relay outputs.
- **41IOM122** – Module with 2 monitored inputs + 2 monitored (or relay) outputs.
- **41IOM000** – Module with 1 monitored output.
- **41IOM000/240** – Module with 1 output, power 230 V.
- **41IOM004** – Module with 4 monitored outputs.
- **41ISC000** – Module for conventional zone.

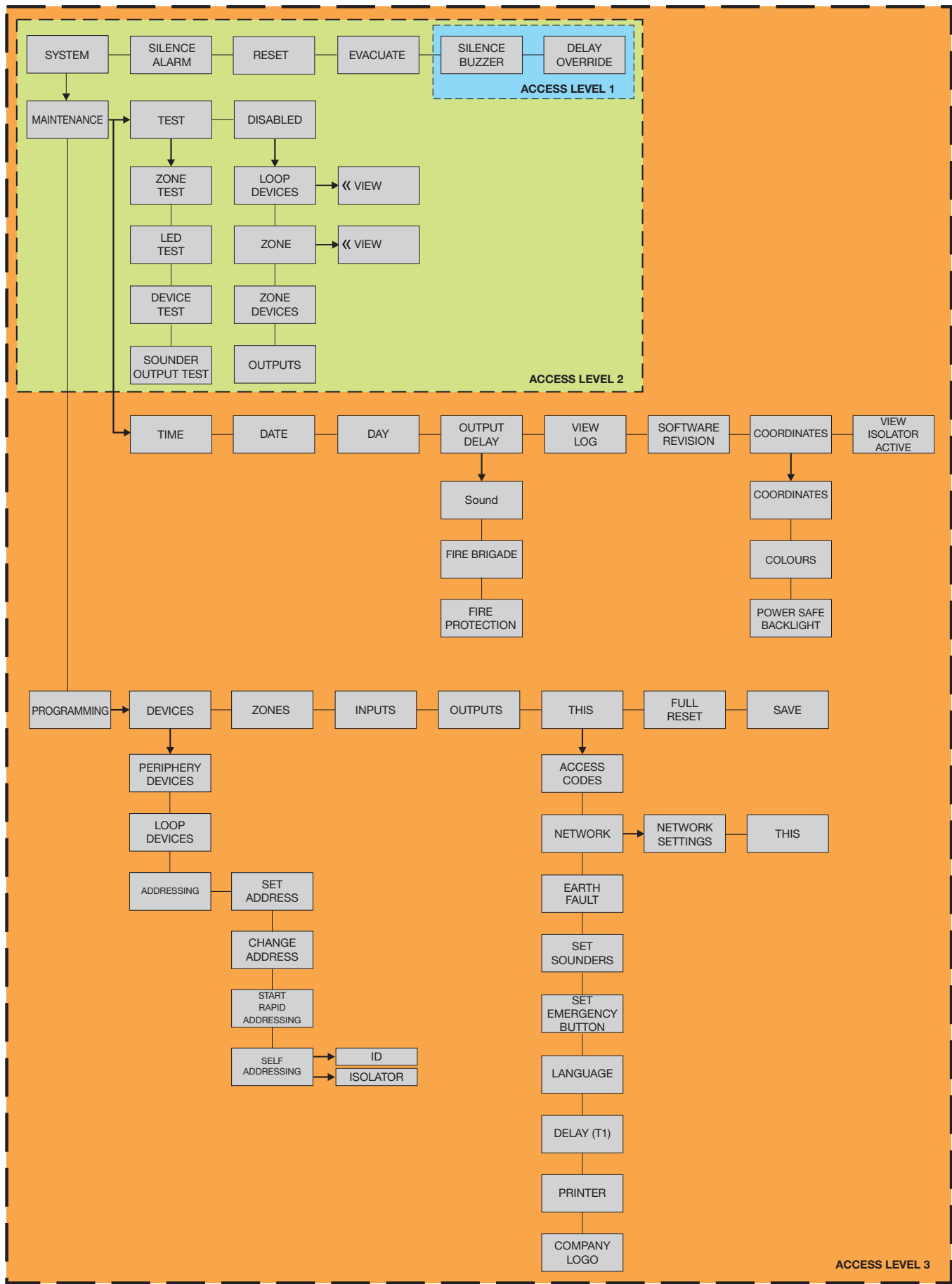
4. Addressed Sounders:

- **41SAB100** – Base with sounder.
- **41SCB100** – Base with sounder + strobe.
- **41SAI000** – Sounder.
- **41SCI000** – Sounder with strobe.

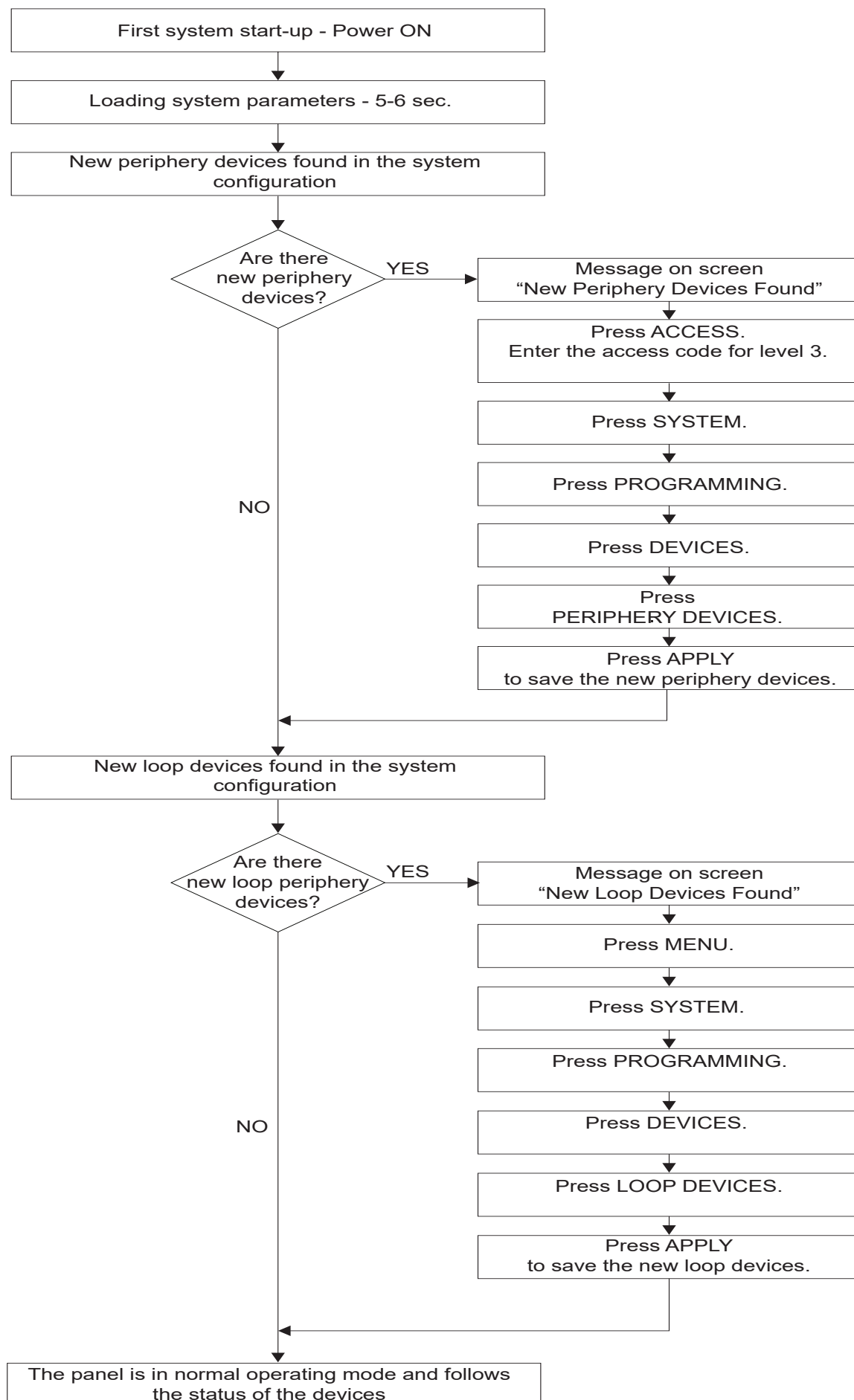


CAUTION: All Comelit addressed devices described above are equipped with a built-in isolator, with the exception of mini module 41IOM010.

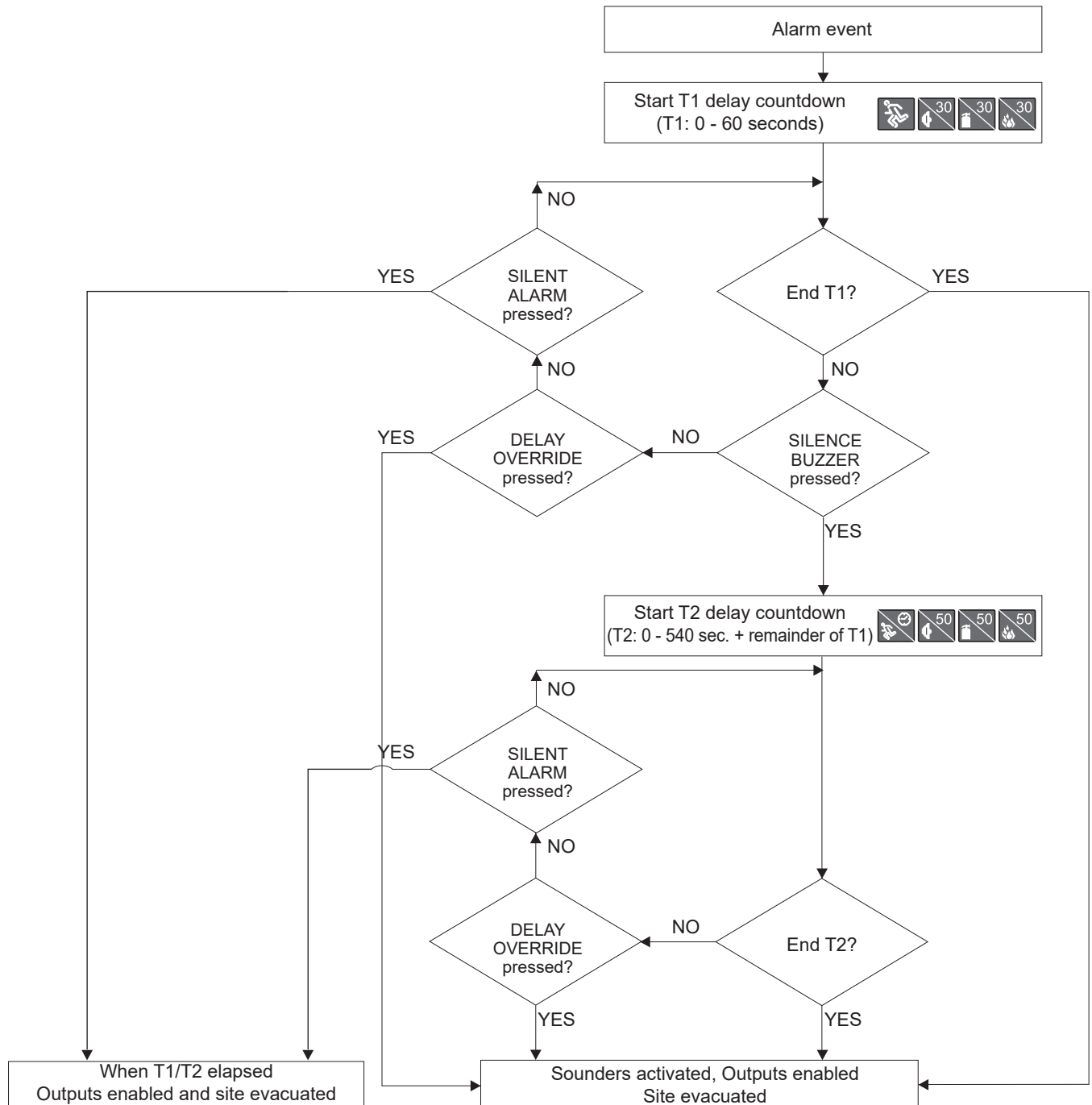
Appendix C: General menu structure:



Appendix D: Initial system startup:



Appendix E: Operating algorithm “Two alarm status levels”:





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