

ABM 16 ADDRESSABLE CONTROL PANEL 16 ZONE MODBUS RS485



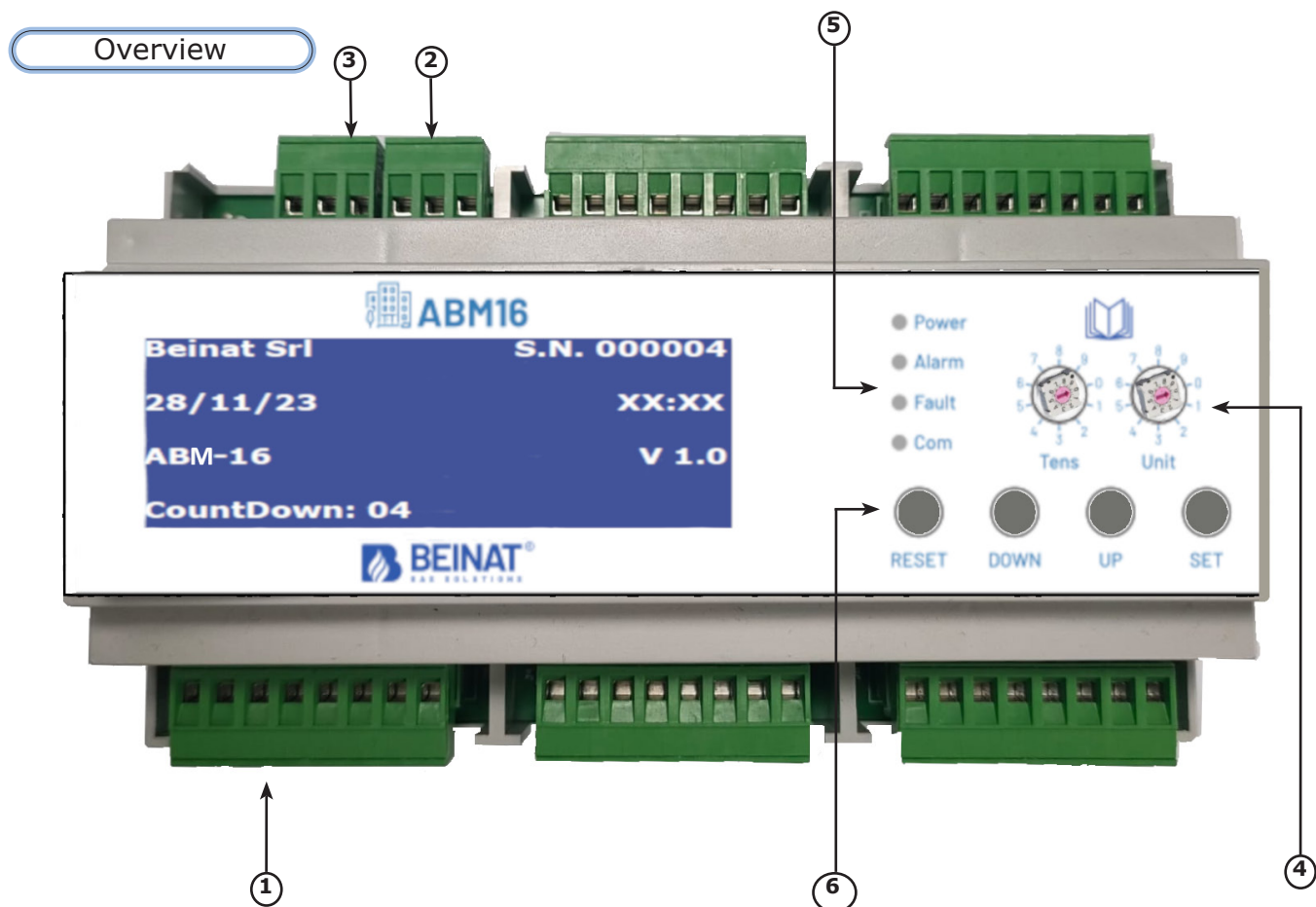
- Primary power supply 12 VDC;
- Possibility of connecting up to 16 MODBUS RS485 devices;
- Display LCD 20x4 Blue and White;
- Acoustic/Visual Signaling for the Alarm and/or Fault status of connected devices;
- Equipment accuracy 1% FS;
- 2 Voltage-free relays 10A 250 VAC;
- Operating temperature -10°C to +60°C;
- Built-in Test & Reset button;
- Protection degree IP20;
- Possibility of combining it with an IP65 electrical BOX;
- Installation on DIN EN 50092 9 Module Omega bar;
- Overall dimensions 159x90x58 mm.

COMPLIANT WITH:
EN 50270

3-year warranty from construction



Important: the assembly/maintenance operations of the appliance must be performed by qualified personnel and in compliance with the current regulations and laws. The manufacturer assumes no responsibility for the use of products that must follow particular environmental and/or installation regulations.



1. Power Terminal Block and Relay Contacts:

Starting from the left, poles 1-2 12 VDC power supply, poles 3-4-5 alarm relay and poles 6-7-8 emergency relay Failure;

2. MODBUS RS485 output terminal block:

Starting from the left, we find the A-B-C poles, used for connection with the SM640 Manager

3. MODBUS RS485 input terminal block:

Starting from the left, we find the A-B-C poles, used for the connection with ABS 16

4. Rotary-Switch:

They are used to give an address to the controllers, so that they can connect to the MODBUS.

5. Signal LEDs:

They are used for visual signalling of the controller status.

Power --> Green;

Alarm --> Red;

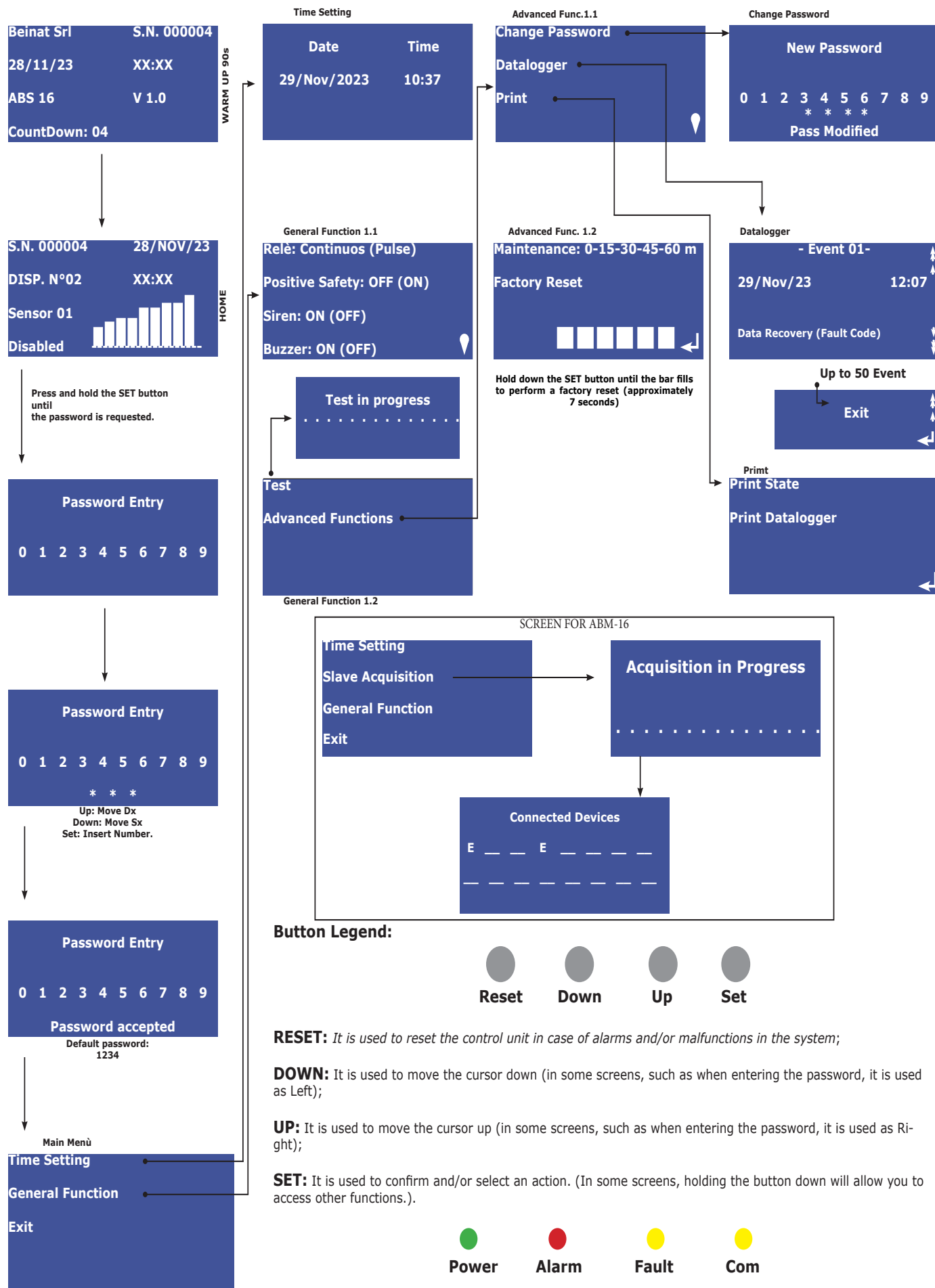
Fault --> Yellow;

Com --> Yellow.

6. Control push-button panel:

It is used to move through the controller menus and to give commands such as TEST and RESET.

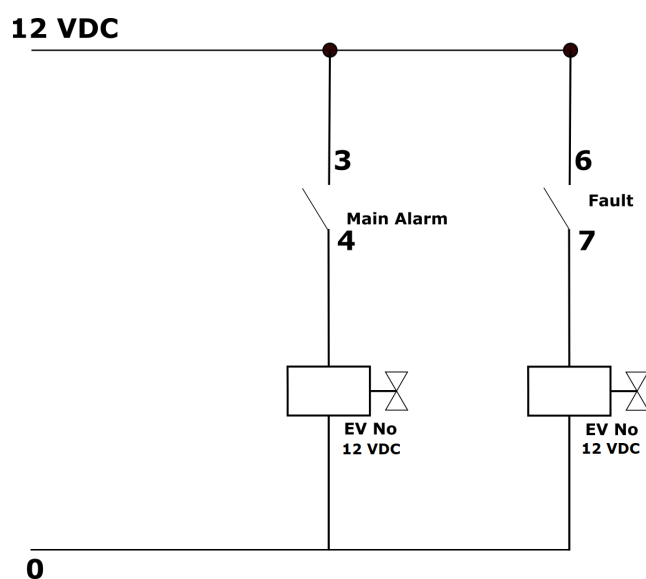
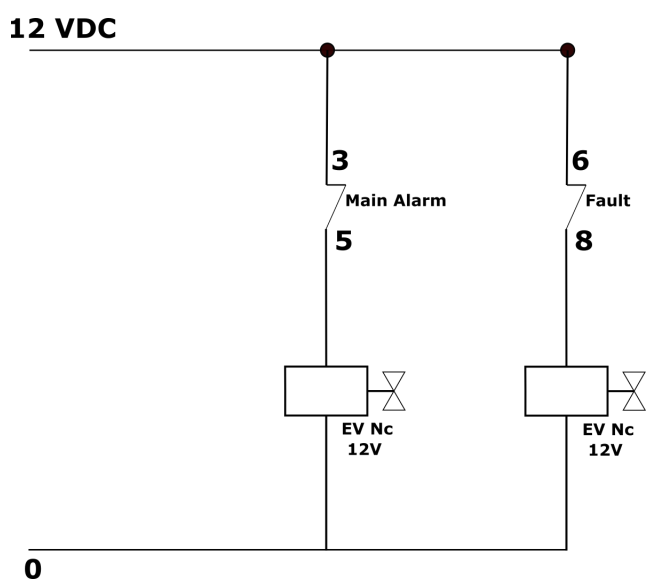
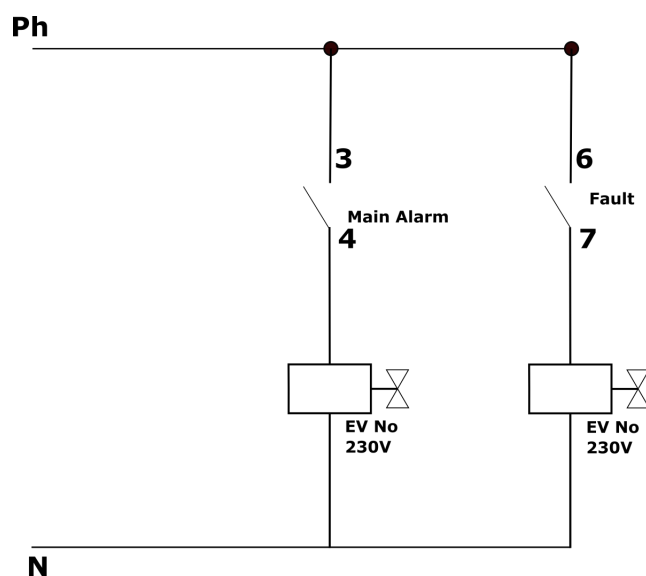
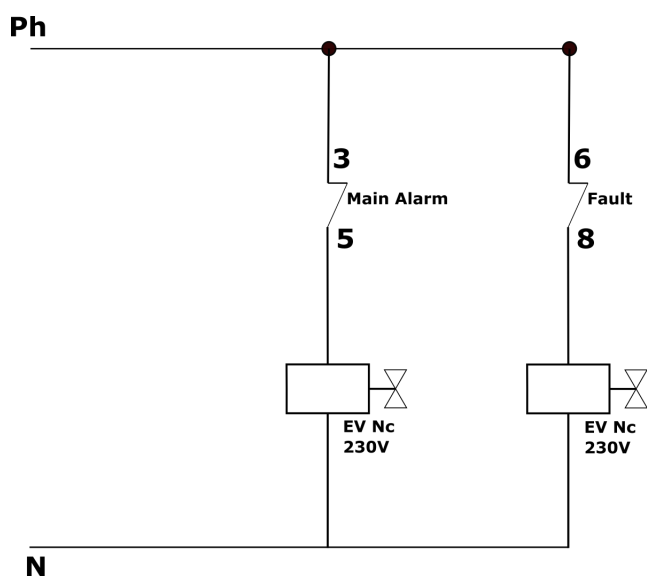
Display Screens



Electrical Connections

Power supply and relay connection

1	2	3	4	5	6	7	8
+	-	C	NO	NC	C	NO	NC
Power Supply 12/15 VDC		Main Alarm Relay			Fault Relay		

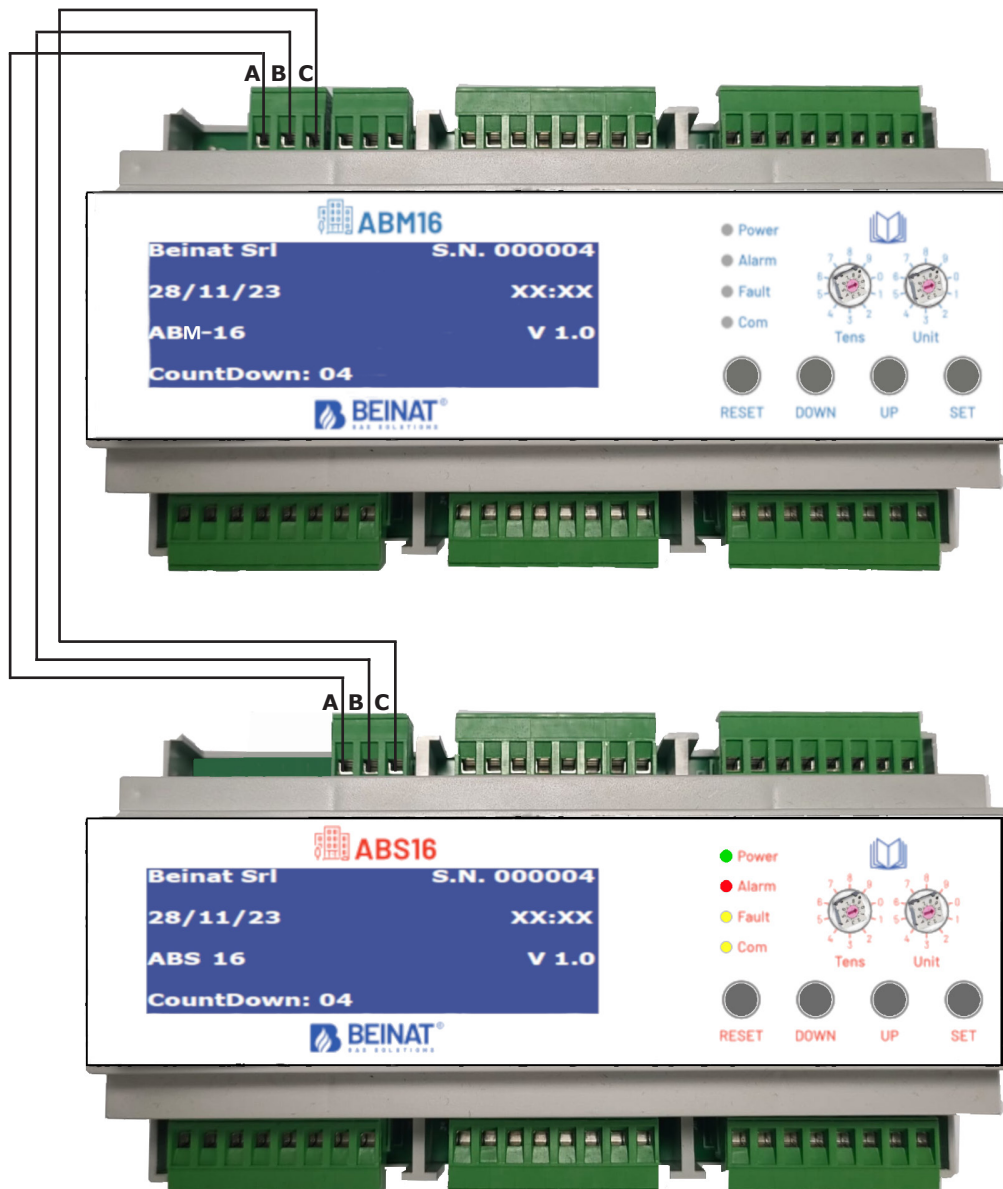
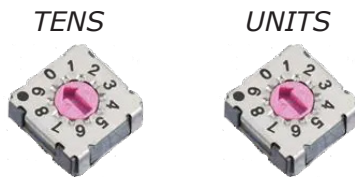


Entering address on ABS 16:

During product installation, it will be necessary to connect the MODBUS RS485 output of ABS 16 to the input of ABM 16 and then enter the address with which the Slave will be recognised and managed by ABM 16.

It will be necessary to act on the Rotary units, indicated on the control panel as Tens and Units, in the following way:

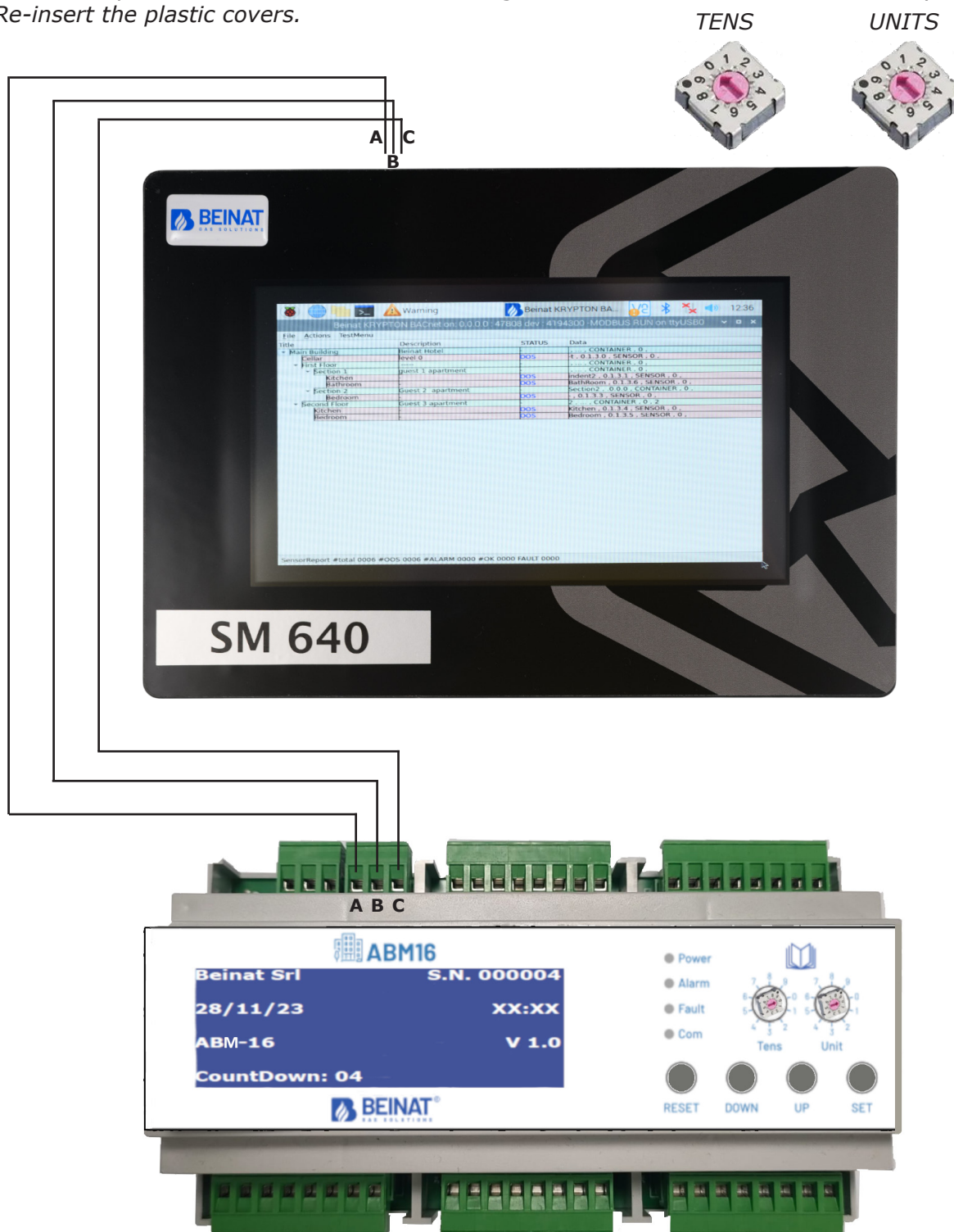
1. Remove the plastic covers;
2. Using a screwdriver, insert the identification number;
3. Perform the ABS 16 acquisition on the Master to validate that it has been correctly recognised;
4. Re-insert the plastic covers.



Entering address on ABM 16:

During product installation, it will be necessary to connect the MODBUS RS485 output of ABM 16 to the input of SM640 and then enter the address with which the master will be recognised and managed. It will be necessary to act on the Rotary units, indicated on the control panel as Tens and Units, in the following way:

1. Remove the plastic covers;
2. Using a screwdriver, insert the identification number;
3. Perform acquisition of the ABM 16 on the Manager to validate that it has been correctly recognised;
4. Re-insert the plastic covers.



Problems and resolutions

If the appliance does not turn on:

Check with a tester that there is 12 VDC power between PINS 1-2 of the power supply terminal;

In case of a failure:

Check that the connections between ABS 16 and the detectors connected to it are correct; check that the cable sheath is not pinched.

Check that the connection CARD on the sensor where the fault was detected is correctly inserted into its slot and that there are no false contacts.

In case of repeated alarms:

Check that there are no gas leaks in the environment where these alarms are detected;

Check that the fault LED does not light up in addition to the alarm LED; if so, perform a general check of the sensors, as they have reached "End of Life".

If the control panel repeatedly goes into alarm and does not close the utilities connected to it:

Check that the connections to external utilities have been made correctly;

Check that the correct power supply required by the connected utility is present;

If devices are not detected correctly during acquisition (ABS to ABM):

Check that the addresses have been entered correctly using the rotary switches.

If there are any numbers that are repeated or a number greater than 32 is entered, not all devices may be detected.

Check that the connections have been made correctly and that there are no reversed cables or those with pinched sheaths.

If communication errors are detected with some/all sensors after acquisition:

Please remember that power cables must be routed separately from signal cables.

*For any other problems, please contact **BEINAT SRL***

NOTES

INSURANCE

The equipment is protected by SOCIETA' REALE MUTUA insurance for PRODUCT LIABILITY up to a maximum value of 1,500,000 Euro against damage that this equipment may cause in the event of malfunction.

WARRANTY

The equipment is guaranteed for a period of 3 years from the date of manufacture, under the conditions described below.

Defective components will be replaced free of charge, excluding plastic or aluminium cases, bags, packaging, any batteries and technical data sheets.

The equipment must be sent carriage paid to BEINAT S.r.l. .

The warranty does not cover faults due to tampering by unauthorised personnel, incorrect installations or negligence resulting from phenomena outside the normal operation of the appliance.

BEINAT S.r.l. is not liable for any direct or indirect damage caused to persons, animals or property due to product failures or forced suspension of use.

END-OF-LIFE DISPOSAL OF ELECTRICAL AND ELECTRONIC APPLIANCES



This symbol on the product or on its packaging indicates that this product cannot be treated as household waste. Instead, it should be taken to a designated collection point for the recycling of electrical and electronic equipment, such as: - points of sale, if you purchase a new product similar to the one you wish to dispose of - local collection points (waste collection centres, local recycling centres, etc.). By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and for human health, which could otherwise be caused by inappropriate waste handling of this product. Recycling materials will help preserve natural resources. For more detailed information about recycling of this product, please contact your local office, your household waste disposal service or the shop where you purchased this product. Please note: in some EU countries, the product does not fall within the scope of the national law implementing European Directive 2012/19/EU and therefore there is no obligation for separate waste collection at the end of its life.

INSTALLER'S STAMP AND SIGNATURE

PURCHASE DATE

SERIAL NUMBER

INSTALLATION DATE

SYMBOLISM



IP20



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