## AREA HOME AUTOMATION MODULE **KN-MDZ**

Compliments! You have purchased the KOOLNOVA Home Automation Zone Module (MDZ), a new automation concept.

KOOLNOVA covers the basic automation needs of lighting/general loads, shutters and technical alarms using a single universal module, which brings together everything needed for an area of the building or house without having to acquire different modules for each functionality.

Thank you for your trust!

Keep the document for future reference.

www.aircontrolclima.it

# A CE &

## Subscription to the communication bus

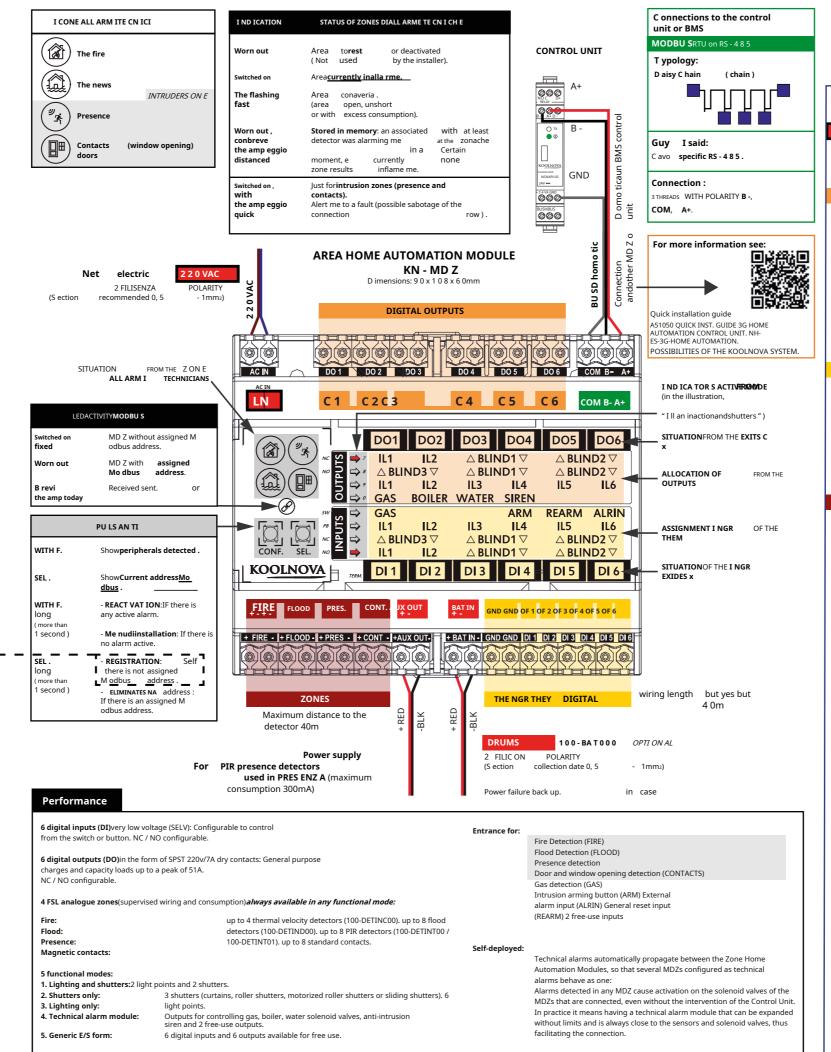
1.Registration procedure Must be run in all zone modules (MDZ) of the installation ein the desired order, with the only condition thatthe first to be executed is the last MDZ on the bus, which is physically located at the end of

the wiring. Make a note of the order where you are registering and the location of each one (living room, kitchen, ...), this information will be needed later:

Press and hold SEL. until the Modbus activity icon turns off, indicating successful registration.

#### If registration fails(the activity icon

- ModBus is still on), we recommend carrying out the following procedure
- Press SEL. again, holding the pressure for at least 1 second.
- Check the bus connection with MDZ.
- Check that the control unit has also been installed in addition to the MDZ.
- Check that the control unit is connected to the MDZ via the bus and power supply.
- Check the use of the correct ModBus sea connection in the control unit (of the two available).
- Check the ModBus wiring. Pay special attention to the A+/B- thread matching (check that has not been reversed in any MDZ or control <u>unit</u> ).



#### **KOOLNOVA SYSTEM**

#### **MODULE DOMOT THE AREA CO**

**KN-MDZ** 

## Connection

All terminals are connectable and grouped by color functionality.

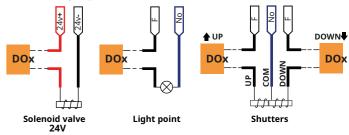
#### 2 2 0 VAC

Connect your 220V AC power supply here to power the MDZ.

To control the shutters it is recommended to power each MDZ from the same circuit as the electrical panel of the shutter motors under its control.

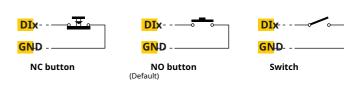
#### DIGITAL OUTPUTS

Connect each DOx output in series with the voltage to be controlled: light points, shutter motors, etc. Always respect the electrical characteristics



#### THE ESSIDIGITALI NGRS

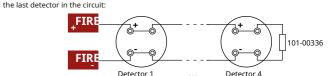
Connect the corresponding actuation mechanism in each of the DIx: buttons, switches and both NC and NO contact mechanisms. Connect each DI to the corresponding mechanism and the



### ZONE DIALL ARME TE CN I CH E

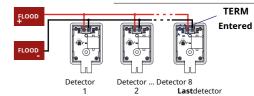
Connect the various detectors here<u>respecting the polarity</u>. **Do not use GND as common**, each zone has its connection to the negative pole. All zones are FSL (Full Supervised Loop) edit is essential to fit the 101-00336 terminals shown(supplied with each MDZ).

Thermal detector fire detectors(100-DETINC00), AND possible to connect**up to 4 detectors at the FIRE input**, adding a 101-00336 terminator after



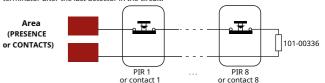
Last detector

FLOOD Flood detectors(100-DETIND00). At the FLOOD entrance can be connected **up to 8 flood detectors**. Flood detectors include a **"TERM" jumpers**. to activate the end of circuit terminal. Don't forget to place the jumper only on the last detector in the



Intrusion detection zone, designed for

connection of PIR presence detectors (100-DETINT00 / 100-DETINT01). You can connectup to 8 detectors with NC contact, powered by the AUX OUT output. You need to connect a 101-00336 terminator after the last detector in the circuit



Intrusion detection zone, intended for connection of magnetic contacts. You can connect**up to 8 magnetic contacts.** You need to connect a 101-00336 terminator after the last detector in the circuit:

IMPORTANT:If using a PRESENCE and/or CONTACTS detectornot supplied by KOOLNOVA, you eed to add a resistor of 6340hm 1% in parallel with each NC contact of each PIR and each

Power socket for PIR intrusion detectors (100-DETINT00/ 100-DETINT01) connected to the PRESENCE zone. The total consumption must be kept below 300mA