

TECHNICAL SPECIFICATIONS OF THE CONTROL BOX

Supply voltage:	230 V~50 ÷ 60 Hz
Type of action, disconnect and device:	1 / B / Electronic
Rated impulse voltage:	4 KW
Type of software:	Class A
Absorption:	5,5 VA max (model for 8 zones)
Type of output: for electro valves	n° 8 relays with single pole contact, NO/NC polarized 8(2) A / 250 V~
for pump (or burner)	n° 1 relay with single pole contact, NO/NC/COM voltage-free 8(2) A / 250 V~ 16 A
Max load for 8 output (valves):	
Section of wires:	
to terminals for power supply and commands:	min. 0,5 mm ² ÷ max. 4 mm ²
to terminals for BUS RX:	min. 0,5 mm ² ÷ max. 1,5 mm ²
Max length of cables for BUS RX:	100 m (with min. wire section at terminals 0,5 mm ²)
Insulation type:	Class II ☐
Protection degree:	IP 52 (with grommet)
Pollution:	Normal
Operating temperature limits:	-10 °C ÷ + 50 °C
Storing temperature limits:	-25 °C ÷ + 85 °C
Reference standard for CE mark:	LVD EN 60 730-1 EMC EN 301 489-3



Important: installation and electrical connection of devices and appliances must be carried out by qualified personnel and in compliance with current regulations. The manufacturer declines any liability in connection with the use of products subject to special environmental and/or installation standards.

The examples shown in this document are of principle.

PERFORMANCE

- Auxiliary output active when at least one valve is open (to activate a pump, burner or ventilation).
- Pump can be activated at the same time of the valves or delayed by 2 minutes, mode selectable on the receiver.
- Luminous indication of communication BUS malfunction.

Dimensions:

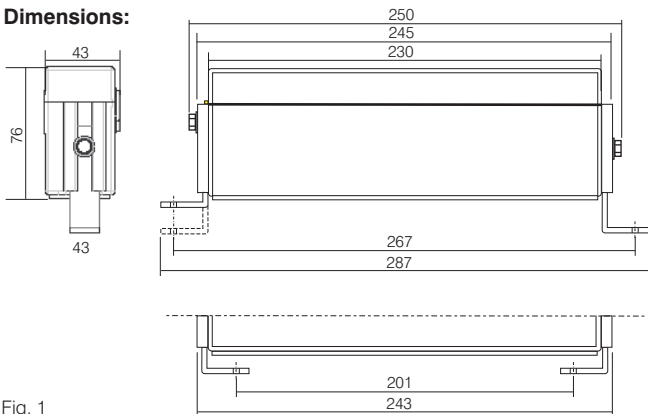
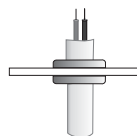


Fig. 1

Grommet (included)



Cord Grip (accessory, to be ordered)

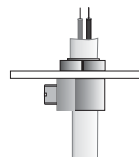


Fig. 2

EN 1 - INSTRUCTIONS FOR THE INSTALLER

1.1- INDICATIONS AND RULES TO BE FOLLOWED FOR THE INSTALLATION OF THE CONTROL BOX

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Indications related to the possible installations and to zone attribution of thermostats and programmable thermostats can be found in the transmitters (thermostats and/or chronothermostats) technical documentation



- Follow carefully the indications and rules present in the instructions of the devices to be piloted.
- In presence of loads with absorption higher than the values indicated into the technical characteristics and on the product, put a relay or contactor duly dimensioned. In presence of high inductive loads, we strongly advise to put an RC filter in parallel to the load.
- In case of standalone installation, with wiring accessible, substitute the rubber Grommet with "Cord Grip" (available on demand, as accessory), to prevent cable tear off as requested by EN60730 standard.

1.2 - INSTALLATION OF THE CONTROL BOX

With reference to picture 4:

- Remove the front part **F** removing captive screws **V**.
- Remove the base **B** with cables fittings and rubber "grommets" **P**.
- In case of independent installation (not in a box), substitute the rubber "grommets" **P** with "Cord Grips" accessories available on request (fig. 2).
- Make on the wall (or in the box) 2 fixing holes for the supports **S**.
- Fix by means of screws the supports **S** to the wall.
- Put on the supports **S** the body **C** of the control box and fix it with screws **D**.
- Make the electrical connections to the devices to be piloted and to the radio receiver, as indicated into the following chapter.
- Insert the wires into the base **B** and make the electrical connections to the terminals.
- Re-insert the base **B** into the body of the control box.
- Close with the front part **F** the body of the control box and fix with screws **V**.
- Write on the label the correspondence of each zone (e.g. sleeping room, living room) and stick it to the front part of the control box.

Attention: the fixing supports can be installed either towards the inside or towards the outside of the control box.

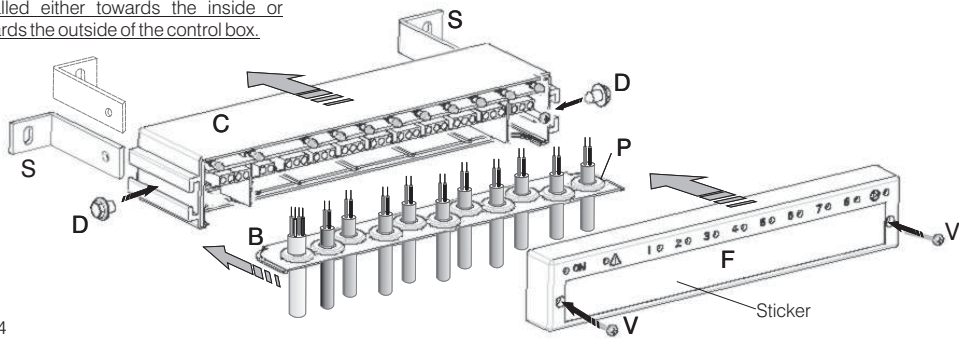


Fig. 4

Example of installation in box for distribution manifolds

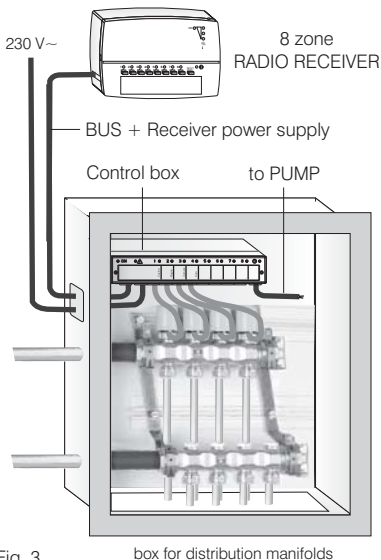
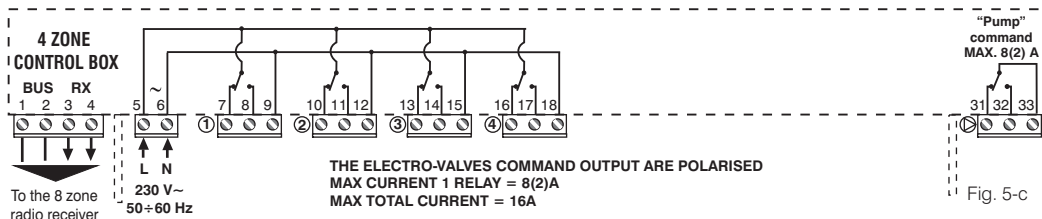
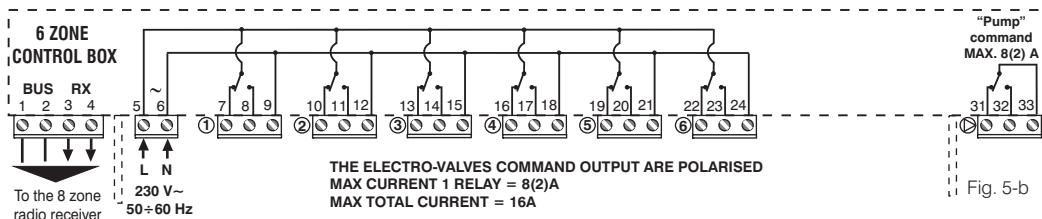
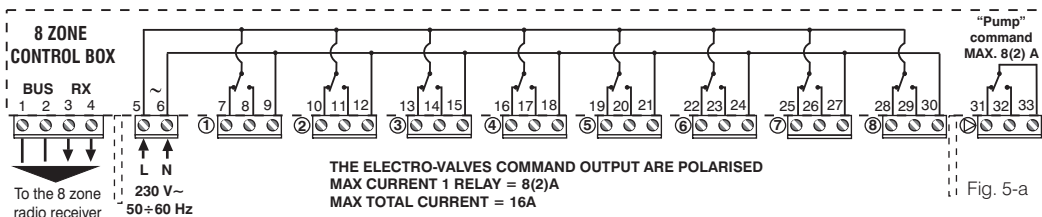


Fig. 3

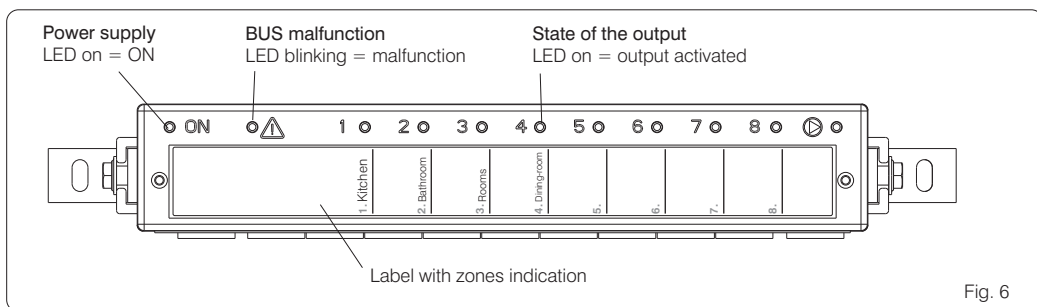
EN 1.3 - ELECTRICAL CONNECTIONS OF THE CONTROL BOX

⚠ SWITCH MAINS SUPPLY 230 V~ OFF

- Make the electrical connections to mains supply 230V, to the electro-valves or motorised valves and to the pump as indicated into the following diagrams, depending on the model: 8, 6 or 4 zones (see attached installation diagram).
- Make the electrical connections to the radio receiver as indicated into the instructions of the receiver.



1.4 - INDICATIONS

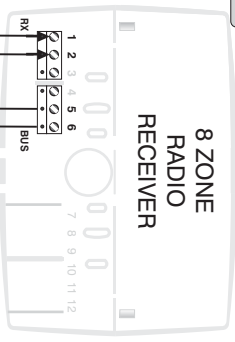


INDICATION OF BUS MALFUNCTIONING

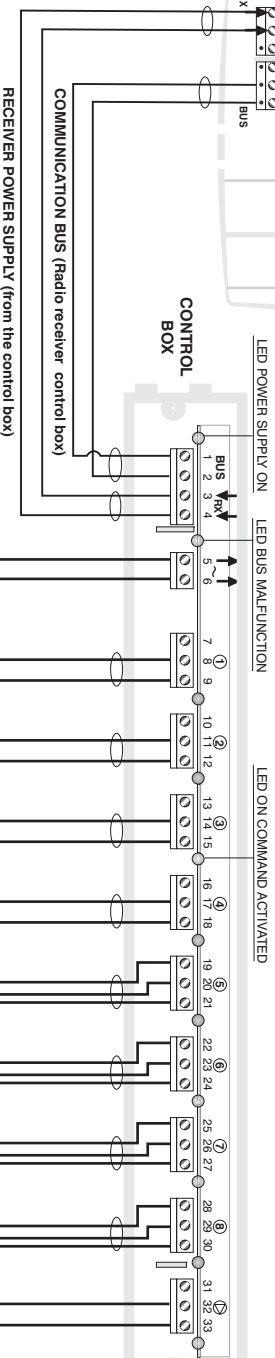
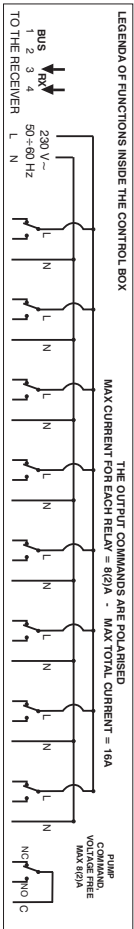
In case the control box doesn't receive any signal or wrong signals from the receiver via the BUS connection, all the active outputs are de-activated. The first correct signal re-starts the activation of the outputs.

The BUS malfunctioning is indicated with the LED ⚠ blinking.

8 ZONE RADIO RECEIVER



Example of wiring diagram for a wireless 8 zone installation with command of electro valves and pump 230V ~



ATTENTION: the pump control output is activated only if at least one of the electro-valves is open.

It is possible to select the activation mode of the pump:

- Immediate
 - Delayed in comparison to the valves (depending on the time of opening of the valves)
- Operate on the switch on the 8 zone receiver's circuit board:
 R=delayed I= instantaneous
 The delay is factory pre-set at 2 minutes.

N.B.: F1 is an eventual protection device (e.g. fuse) on the line powering the control box
 N.B.: F2 is an eventual protection device (e.g. fuse) on the line powering the pump

