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FloorControl WB01 D-8-24

Wiring box for underfloor heating

WARNING!



- Work on electrical circuits should only be carried out by an authorised electrician.
- Do not allow the device to come into contact with water.
- Disconnect the device from the power supply before servicing.
- Do not make any modifications to the device.

Description of the device

The FloorControl WB01 D-8 wiring box for FloorControl underfloor heating regulates the room temperature by controlling the power supply for thermoelectric actuators mounted on

the manifold. The FloorControl system compares the room temperature measured by the thermostat to the temperature set on the thermostat. The control is done by shutting off or opening the flow through the underfloor heating loops by means of thermoelectric actuators connected to the box. When the desired temperature is not reached, the system allows the flow, when the temperature is reached, it closes it.

The room temperature is measured using sensors built into the room thermostats. The desired temperature is also set using thermostats.

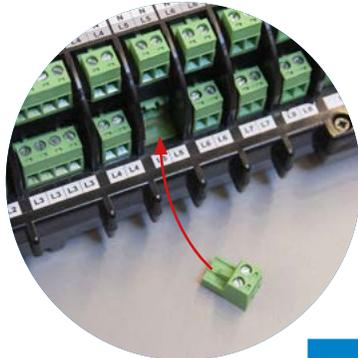
The FloorControl WB01 D-8 wiring box allows control of eight independent zones. Thermoelectric actuators are assigned to a zone by means of appropriate electrical connections.

Switching between heating and cooling is done via room thermostats.

The FloorControl WB01 D-8 wiring box allows control of the circulating pump of underfloor heating. Connect the pump to an external power source.

A programmable FloorControl RT05 room thermostat is required for weekly control in a given zone.

The box is equipped with removable connectors to facilitate making electrical connections



Construction of the device

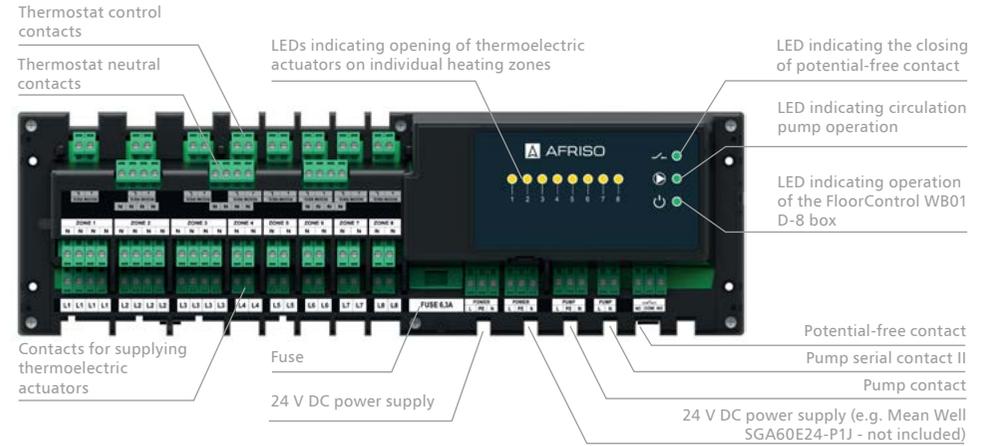


Figure 1. Structure description of the FloorControl WB01 D-8-24 wiring box

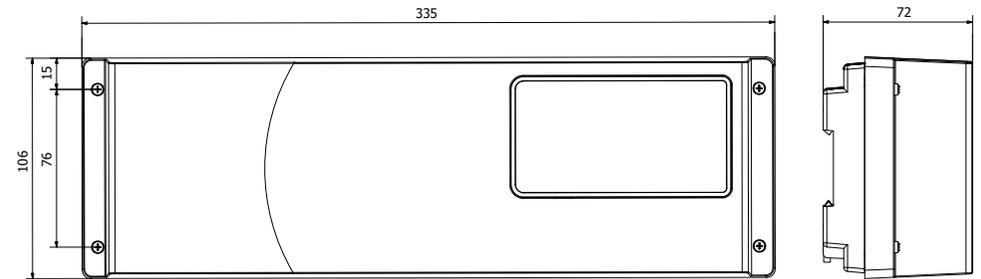


Figure 2. Dimensions of the FloorControl WB01 D-8-24 wiring box

Compatibility with thermostats

Wiring box WB01 D-8-24, powered by 24 V DC, is compatible with battery-powered and mechanical thermostats.

ProCalida EF1 polyamide heating and cooling manifolds

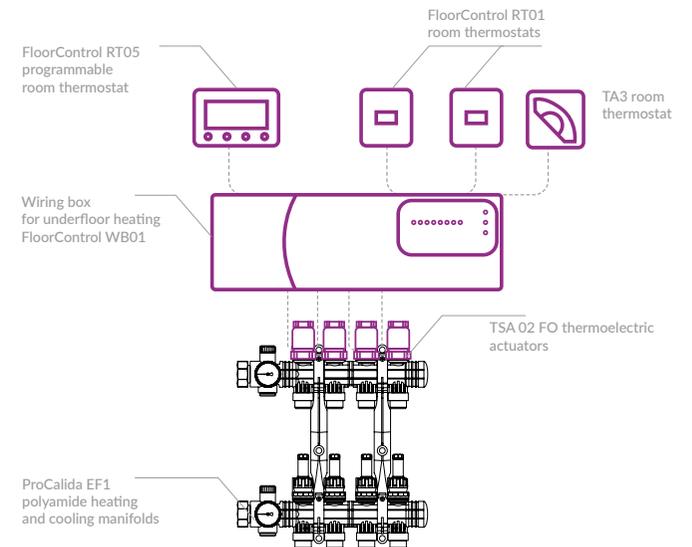
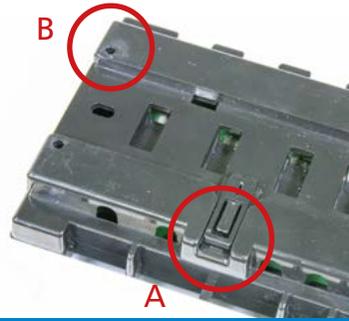


Figure 3. Example application diagram

Wall mounting

The WB01 D-8 wiring box's mounting location must provide protection from the weather. The FloorControl WB01 D-8 wiring box is designed for mounting on a DIN mounting rail. Two black latches (A) are used to latch the wiring box onto the DIN mounting rail. The wiring box can also be fixed directly to the wall using the mounting holes (B) at the rear of the housing.



Electrical connections

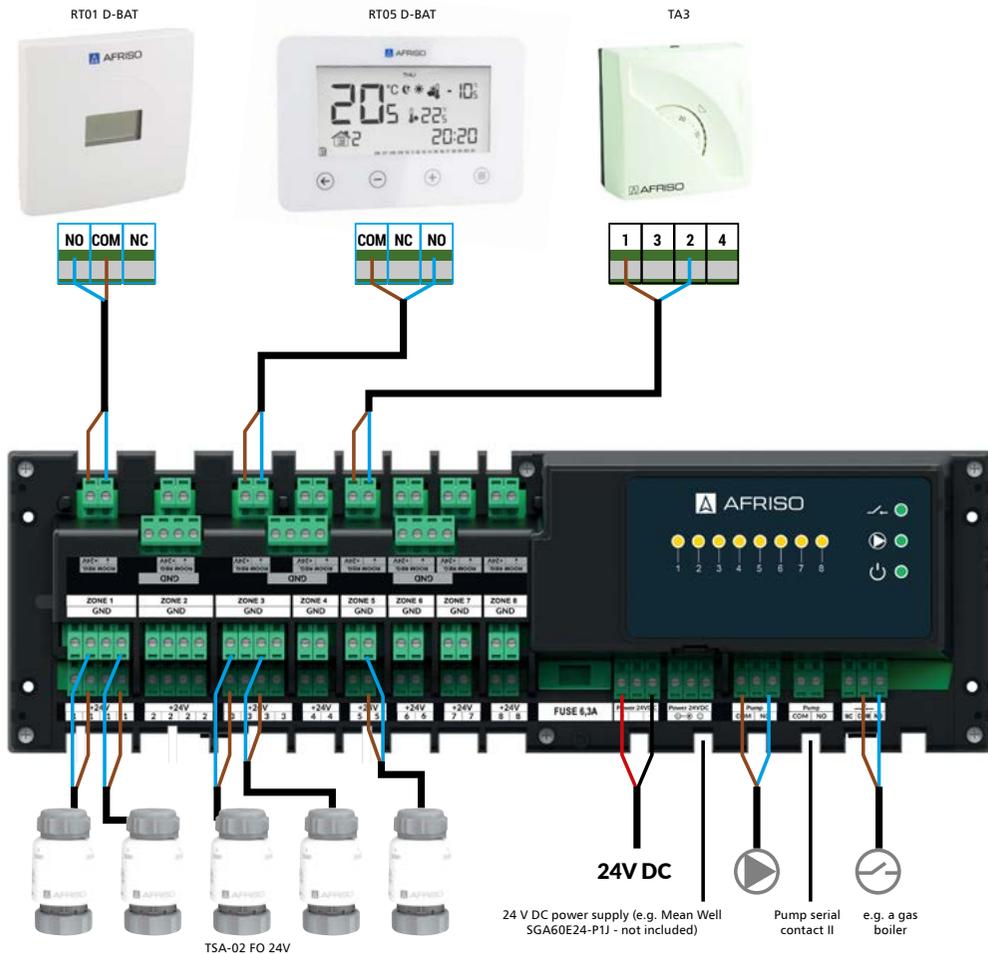


Figure 4. Electrical connections

Technical data

Parameter/part	Value/description
General specification	
Dimensions (W x H x D)	335 x 106 x 72 mm
Ambient temperature	5÷50°C
Number of heating zones (operated thermostats)	max. 8
Electrical parameters	
Power supply	24 V DC
Load capacity of the actuator	0.3 A
Load capacity of pump contact	0.5 A/250 V AC
Load capacity of potential-free contact	1 A/250 V AC
Power consumption	max 2 W
Fuse	6.3 A

Approvals, certificates, conformity

WB01 D-8-24 wiring boxes meet the requirements of the Directive of the European Parliament and Council 2014/35/EU of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (Official Journal EU L 96, 29.03.2014, page 357) and Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (Official Journal EU L 96 of 29.03.2014, page 79), Directive 2009/125/EC establishing a framework for the setting of ecodesign requirements for energy-related products and the Regulation of the Minister of Entrepreneurship and Technology of 24 June 2019 amending the Regulation on essential requirements for restricting the use of certain non-hazardous substances in electrical and electronic equipment implementing Directive (EU) 2017/2102 of the European Parliament and of the Council 2017/2102 of 15 November 2017 amending Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (Official Journal EU L 305, 21.11.2017, p. 8). Harmonised standards have been used for conformity assessment: PN-EN IEC 60730-2-9:2019-06, PN-EN 60730-1:2016-10.

Decommissioning, scrapping



1. Disconnect the power supply from the device.
 2. Remove the device.
 3. In order to protect the environment, the decommissioned appliance must not be disposed of with unsorted household waste. The device must be delivered to a suitable disposal point.
- WB01 D-8 wiring boxes are made of recyclable materials.

Guarantee

Product warranty in accordance with the general conditions of sale and delivery. The guarantee becomes void as a result of arbitrary alterations or installation not in accordance with this installation and operation manual.

Customer satisfaction

For AFRISO, customer satisfaction is the most important thing. If you have any questions, suggestions or problems with the product, please contact us.

Addresses

The addresses of companies representing the AFRISO group worldwide can be found at www.afriso.com.