VIMAR 02951 Smart Automation By-Me Plus User Manual

Contents

VIMAR 02951 Smart Automation By-Me Plus

Touchscreen home automation system thermostat for ambient temperature control (heating and air-conditioning), 2 and 4 pipe system management, 3-speed and proportional fan-coil control, class I temperature control device (contribution 1%) in ON/OFF mode, class IV (contribution 2%) in PID mode, 1 input for flush-mounting or wired NTC temperature sensor, RGB LED back-lighting, can be interfaced with actuator with proportional analogue outputs 01466.1 to make a class V modulating room thermostat (contribution 3%), to be completed with Eikon, Arké or Plana cover plates – 2 modules.

The thermostat integrates with the By-me Plus home automation system for temperature control in 2 or 4 pipe systems (heating/cooling) and neutral zone (only in 4-pipe systems), with “boost” function to activate a second source which enables reaching the desired level of thermal comfort faster. The thermostat is equipped with an RGB backlit display and 5 capacitive buttons for controlling the temperature set-point, the speed of the fan coil and the configuration of the thermostat operating mode. The thermostat is a universal device with 2 modules for the Eikon, Arkè and Plana series.

CHARACTERISTICS

- Rated supply voltage: BUS 29 V
- Typical current draw: 5 mA
- Terminals: 2 TP bus, 2 for external temperature sensor
- Hysteresis: adjustable between 0.1°C and 1°C; the adjustment is made by the control unit.
- Temperature measurement accuracy
  - integrated sensor: ±0.5°C between 15°C and 30°C, ±0.8°C at the ends
  - auxiliary external sensor: as integrated sensor. Over the device’s operating temperature the error of the auxiliary external sensor increases (max 2.5°C @ 80°C)
- Maximum length of cable connecting the external sensor: 60 m. Use a twisted cable with a minimum cross-section of 0.5 mm2 (art. 01840)
- 2 and 4 pipe system management
- Heating, cooling, neutral zone (only with 4 pipes)
- Control via specific On/Off hot/cold valve By-me actuator with actuator 01471 and proportional type (0-10 V, 4-

20 mA) with actuator 01466.1

- Fan coil management (3 speed/proportional, on/off valves)
- Selectable PID or ON/OFF adjustment algorithm:
  - the ON/OFF algorithm is the control in which, on exceeding the set temperature increased by a threshold value (vice versa for air-conditioning), the heating is turned off and then back on again when the room temperature falls below the set temperature.
  - the PID is an advanced algorithm capable of keeping the room temperature more stable. It acts by turning the system on and off appropriately so as to be like a gradual increase or decrease in the heating (or cooling) power of the system. Ideal for use in floor heating systems, the algorithm needs to be properly calibrated according to the type of room and system.
- Boost function: control of an auxiliary actuator to speed up the heating or air-conditioning of the room.
- Input for external sensor (art. 02965.1-20432-19432-14432) whose functions are as follows:
  - Substitution of the internal sensor
  - Average with the internal one
  - Screed temperature limitation
  - Viewing only via touchscreen or web server
- Open window management function
- Device can be managed remotely (touchscreen, web server)
- Device can be interfaced with third-party systems
- Interface with capacitive buttons
- Backlit RGB display can be set as fixed colour or Ecometer
- Operating temperature: 0°C – +40°C
- ErP classification (Reg. EU 811/2013):
  - ON/OFF: class I, contribution 1%
  - PID: class IV, contribution 2%
  - with actuator with proportional analogue outputs 01466.1: class V, contribution 3%

The thermostat display is very sensitive and, to ensure proper operation, you need to make sure that the power supply of the BUS line has an earthing terminal ⏚ properly connected to the earth of the electrical system.

CONFIGURATION.

For full details see the complete instruction sheet that can be downloaded from the website www.vimar.com.

INSTALLATION RULES

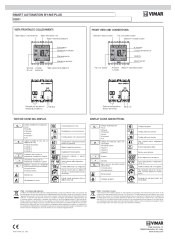
- The appliance must be installed in flush- or wall-mounting boxes with the relevant mounting frames and cover plates, at a height of 1.5 m off the floor, in a suitable position for correctly detecting the ambient temperature. It must not be installed in niches, behind doors and cur-tains or in areas affected by sources of heat or atmospheric factors. In particular, it must not be installed on outer walls or in association with appliances that generate heat (e.g. regulators or lamps).
- Installation should be carried out by qualified personnel in compliance with the current regu-lations regarding the installation of electrical equipment in the country where the products are installed.

REGULATORY COMPLIANCE.

EMC directive. Standards EN 50428, EN 50491.
REACH (EU) Regulation no. 1907/2006 – Art.33. The product may contain traces of lead.

Viale Vicenza, 14
36063 Marostica VI – Italy www.vimar.com

Documents / Resources

	VIMAR 02951 Smart Automation By-Me Plus [pdf] User Manual 02951 Smart Automation By-Me Plus, 02951, Smart Automation By-Me Plus, By-Me Plus
	VIMAR 02951 Smart Automation By-Me Plus [pdf] Instruction Manual 02951 Smart Automation By-Me Plus, 02951, Smart Automation By-Me Plus, Automation By-Me Plus, By-Me Plus, Me Plus, Plus

References

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