

VTRX05

Wireless radiator valve with display and temperature probe

Electronic actuator for the regulation and control of radiators/heaters, compatible with room temperature control systems that use CDOM0x, CRM4.0, CR05xWIFI series multimedia programmable thermostats and compatible derivatives.

The actuator acts on the thermostatic valve, regulating the flow of water into the radiator. During installation configuration, an intuitive app allows you to select the actuation/regulation mode between proportional (recommended) and ON/OFF.

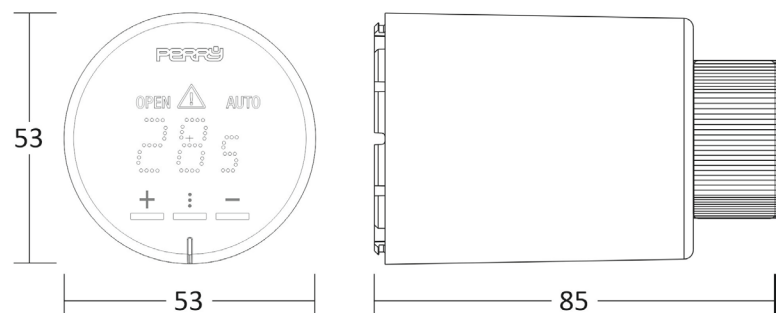
On the front of the actuator there is a temperature sensor, a white LED display and three function keys which effectively make it an actuator with an integrated room thermostat; Inside there is an additional temperature sensor that detects the inevitable self-heating induced by the thermostatic valve, allowing the management and regulation algorithm to compensate for the detected room temperature value.

In particular cases, if the actuator location is not optimal, the system allows for the possibility of preparing a zone/compartiment sensor or thermostat (STX01, STX03x, TETX05, RXTEUM01) for better detection of the room temperature. Using the front buttons it is possible to modify the desired comfort temperature T1, reduction temperature T2 and absence temperature T3 and the AUTO/MAN/OFF operating mode of the zone/compartiment thermoregulation and consult any self-diagnostic error codes.

If not used in the context of a multi-zone thermoregulation system, the VTRX05 actuator can operate in autonomous (stand alone) mode as a local programmable thermostat for radiators.

Important notes: this device is part of the CDOM and CRM4.0 Building Automation System, compliant with UNI EN ISO 52120:1, whose automation level/class certification must be drawn up by a specific professional in compliance with the certification procedures reported in the UNI TS 11651 Technical Specification.

The VTRX05 actuator cannot be identified as a THERMOSTATIC VALVE therefore, in accordance with chap. 10, paragraph 10.3 point b) of Annex A of the Ministerial Decree 06.08.2020, in the presence of a BACS system, in fact equipped with a thermoregulation control unit with modulating devices for the automatic regulation of the room temperature, the requirement to adopt THERMOSTATIC VALVES with "low thermal inertia" is excluded.



Dimensioni (mm)

TECHNICAL FEATURES

Power supply:	battery-powered (2 x 1.5V AA batteries) with approximately 2 years of battery life
Display:	7-segment LED with white light
Control modes:	proportional (factory default), ON/OFF with hysteresis band
Operation:	Stand-alone (autonomous) or controlled by a home automation control unit
Measuring range:	-5°C/+39°C with temperature communicated by a programmable thermostat 0°C/+55°C with temperature detected by the internal sensor
RF communication:	868MHz bidirectional, RF transmission power <25mW e.r.p.
Radio coverage:	30-80 meters, depending on the type of room
Attachment to thermostatic valve:	threaded ring for M30x1.5 mm connection
Closing force:	max. 10 kg (98 N)
Thermostatic valve compatibility:	max. PN 10 bar (1000 kPa) - max. ΔP 1 bar (100 kPa)
Dimensions:	85x53 mm
Protection rating:	IP20
Compliance:	Directive 2014/53/EU (RED)

SPECIFICATION ITEM

Electronic radiator head, Perry brand, mod. VTRX05, compatible with thermostatic valves with a standard M30x1.5mm connection; equipped with a room temperature sensor and an internal sensor for compensating for the room temperature detected near the radiator. Equipped with three white LED digits to indicate Tamb/Tsetpoint values and LED indications of the OPEN/AUTO status of the valve; it has two buttons to allow the increase/decrease of the temperature set-points and a button to select the AUTO mode menu; ON/OFF or Proportional/Modulating regulation mode based on the settings defined on the multimedia programmable thermostat; Operating temperature -5/+55°C; Temperature setting +4°C/+39°C. Battery powered (2 x 1.5V AA-LR6 batteries); Bidirectional RF-868MHz connection with multimedia programmable thermostat; IP40 protection rating; Complies with Directive 2014/53/EU (RED); Dimensions: 85mm with Ø 53mm.

ACCESSORIES

- 1PRPSA01 AA alkaline batteries
- 1PRPSR01 AA Ni-MH rechargeable batteries (4 pcs.)
- 1PACB001 Battery charger for 1PRPSR01 rechargeable batteries
- 1PAVTNN001 Adapter for Caleffi valves
- 1PA9702047 Adapter for Danfoss valves
- 1PRVTRX002 Replacement threaded ring for VTRX05
- 1PRVTRX003 Replacement battery door for VTRX05

Important note: the possible use of rechargeable batteries must be defined during the installation phase, as it involves setting a specific operating mode during the commissioning configurations.