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RT-821

Temperature controller,
for heating systems
anti-icing



519083121595717

Do not dispose of this device in the trash along with other waste!

According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.



Purpose

The temperature controller is used to control devices in anti-icing systems that prevent freezing of, for example, gutters, stairs, driveways, etc.

Functioning

The power supply of the controller is indicated by a green LED. Until the desired ambient temperature is reached, the relay contact is in position 2-1 (the red LED is on) and the heating device is switched on. When the set temperature is reached, the contact is switched to position 2-8 and the heater is switched off or the ventilation unit is switched on (red LED goes off).

Temperature drop by the value of hysteresis will switch the heating device on again (contacts 2-1 closed) until the preset temperature is reached.

Mounting

1. Take OFF the power.
2. Put on the regulator on the rail in switchgear box.
3. Connect to the system according to the diagram.
4. Install the temperature probe at the temperature measurement point and connect it to the controller. Make sure that the temperature sensor is not close to heating or ventilation equipment. If necessary, the probe cable can be extended by 10 m. If the cable is longer, errors may occur in the operation of the relay.
5. Set the required temperature value with "T" potentiometer.
6. Set the required hysteresis value with "Thist" potentiometer.

Technical data

power supply	230 V AC
maximum load current (AC-1)	16 A
contact	1×NO/NC
range of temperature adjustment	-4÷5°C
hysteresis (adjustable)	0.5÷3°C
setting accuracy	1°C
measurement accuracy	±1°C
probe type	RT
power indication	green LED
working status indication	red LED
power consumption	1.1 W
working temperature	-25÷50°C
terminal	4.0 mm ² screw terminals (wire) 2.5 mm ² screw terminals (cord)
tightening torque	0.5 Nm

Technical data cont.

dimensions

mounting

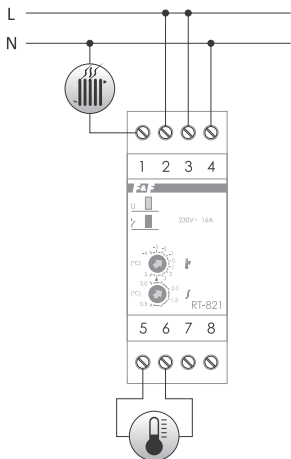
ingress protection

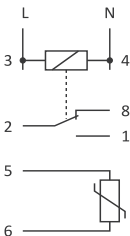
2 modules (35 mm)

on TH-35 rail

IP20

Wiring diagram





- 1 normally open contact (NO, active),
- 2 relay common contact COM
- 3 L power supply
- 4 N power supply
- 5-6 RT connection probe
- 8 normally-closed contact (NC, reactive)

Warranty

The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us.

CE declaration

F&F Filipowski sp. j. declares that the device is in conformity with the essential requirements of The Low Voltage Directive (LVD) 2014/35/EU and the Electromagnetic Compatibility (EMC) Directive 2014/30/UE.

The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found at www.fif.com.pl on the product page.