



TERMO  
**Thermostats**

# Accessories TERMO

The temperature in the room is assessed by a room thermostat RTD701, RTD201 or RTM201, which controls the fan's revs and the flow of heating medium through the heat exchanger. Trench heaters with natural convection are controlled by thermostats Z-RT001, RTD301 or Z-TF001.

## Thermostats for trench heaters with fan



### RTD701 – Wi-Fi-enabled digital room thermostat NEW PRODUCT

Trench heater control, designed for units equipped with 24 V DC EC fans and 24 V DC electrothermal actuators, Wi-Fi compatible, 2/4 pipe system, heating, cooling, heat exchanger temperature sensor (part of the thermostat).

**Description:** • digital display • 2/4 pipe heating/cooling circuits • Weekly scheduler • Manual or automatic switching of speeds • Wi-Fi • Colour: white

**Parameters:** • Temperature range 5-50 °C • Rated voltage 24 V DC • Control of fans 24 V DC EC 0...10 V, max. ±5 mA • Max. direct connection of 10 pieces of electrothermal actuators Z-TS24 • Ambient temperature 0-50 °C • Dimensions: 86×86×10 (44) mm

**Wi-Fi:** • wireless control and setup via local Wi-Fi, or remotely via the Internet • connectable to multiple thermostats and other SMART functions • Android and iOS apps • Alexa and Google Assistant voice assistant communication

**External sensor:** • sensor is a standard part of the thermostat • can be used for remote indoor temperature measurement or as a heat exchanger temperature sensor.



### RTD201 - digital room thermostat

Trench heater control for units equipped with 24 V DC EC fans and 24 V DC electrothermal actuators. Universal thermostat featuring advanced functions and multi-function inputs for control in the following combinations: 2-pipe system, 2-pipe system with electric heater, 2-pipe system with radiator / floor heating, 4-pipe system, 4-pipe system with electric heater, 4-pipe system with a 6-port ball valve, exchanger temperature sensor (accessories)

**Description:** • LCD display • 2/4 pipe heating/cooling circuits • Weekly scheduler • Manual or automatic switching of speeds • Operating modes: Comfort, Economy and Protection • Colour of front cover: white RAL9016

**Parameters:** • Temperature range 5-40 °C (Comfort mode) • Rated voltage 24 V DC • Power consumption max. 4 VA • Control of fans 24 V DC EC 0...10 V, max. ±5 mA • Max. direct connection of 10 pieces

of electrothermal actuators Z-TS24 • Degree of protection IP30 • Ambient temperature 0-50 °C • Relative humidity <95% • Dimensions: 134×92×25 mm

**Optional accessories:** External temperature sensor TE40 • Sensor of exchanger's temperature TE30 • Possibility to connect open window sensor

**Setting the thermostat:** • Mode setting using DIP switches or PCT Go mobile application (via NFC)



### RTD201KN - digital room thermostat with KNX connection

A digital RTD201KN thermostat to facilitate trench heating integration into the BMS system.

**Description:** • LCD display • 2/4 heating/cooling circuits • KNX bus communication (S-mode and LTE-mode) • Manual or automatic switching of speeds • Operating modes: Comfort, Economy and Protection • Colour of front cover: white RAL9016

**Parameters:** same as RTD201 model

**BMS integration:** • putting it into operation ETS5 or higher versions • ACS version 13.03 or higher

• integrated with Synco controllers • integrated into the DESIGO system via group (ETS) or individual addresses • integrated into external systems via group addresses (ETS)

Optional accessories: External temperature sensor TE40 • Sensor of exchanger's temperature TE30 • Possibility to connect open window sensor



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## RTM201 - mechanical thermostat, 3-stage control

A mechanical thermostat for 3-stage control of trench heaters fitted with 24 V DC EC fans and 24 V DC electrothermal actuators. 2/4 pipe system, heating, cooling, exchanger temperature sensor (accessories)

**Description:** • mechanical thermostat for controlling trench heaters 24 V DC • 2-pipe heating/cooling system • manual 3-speed fan switch • front cover colour - RAL9003 White

**Parameters:** • Temperature range 8...30 °C • Rated voltage 24 V DC • Input: 2mA (without external loading) • 24 V DC EC fan control, max. 10 mA • Max. connecting

of 4 pieces of electrothermal actuators Z-TS24 • fan operation blocking in the event of low heating medium temperature • anti-freeze protection • IP30 protection rating • Ambient temperature 0-50 °C • Relative humidity <95% • Dimensions: 110×96×36 mm

**Optional accessories:** • Sensor of exchanger's temperature TE3



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## Thermostats for trench heaters with natural convection



### RTD301 - digital room thermostat

It works in combination with Z-TS230 electrothermal actuators activated based on a time schedule adjustable to 15-minute intervals. Compatible with Z-TS24 actuators when used with a switched-mode power supply.

**Description:** • 2 position ON/OFF heating control • Weekly time schedule • Operating modes: Comfort, Standby, Automatic and Protection • Front cover colour - RAL 9003 White

**Parameters:** • Temperature range: 5-35 °C • Supply voltage: 3 V DC (2x 1.5 V batteries) • Switching voltage: 24 ... 230 V AC • Connectable to up to 15 pcs Z-TS230 electro-

thermal actuators • Connectable to up to 5 pcs Z-TS24 electrothermal actuators (when using power supply) • Degree of protection IP30 • Ambient temperature 0-50 °C • Relative humidity <95% • Dimensions: 127×85×22 mm

**Optional accessories:** • External TE40 temperature sensor • Optional open-window sensor



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### Z-RT001 - mechanical room thermostat

It controls electrothermal actuators Z-TS24 with a switched power supply 24 V DC (PS). Without the power supply it directly controls the electrothermal actuator Z-TS230 working with the voltage of 230 V AC. Function opened/closed.

**Parameters:** • Temperature range: 10 to 30 °C • Operating voltage: 24 V DC or 230 V AC • max. connection of 18 Z-TS230 electrothermal actuators

• max. connection of 10 Z-TS24 electrothermal actuators (when using power supply) • Degree of protection IP30 • Colour: White • Dimensions: 83×83×40 mm



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### Z-TF001 - mechanical thermostat with a thermostatic head with capillary

The thermostatic head Z-TF001 with remote control with a liquid sensor is meant for the control of thermostatic valves of FRK trench heaters. The temperature is regulated in dependence on the user's requirements without the need for other energy sources. Each trench heater must have its own Z-TF001, more trench heaters cannot be controlled!

**Parameters:** • Thermostatic radiator valve head with remote liquid-filled sensing element • Temperature range: 9 to 26 °C, antifreeze temperature 9 °C • Mode: proportional control • Operating voltage:

without additional energy, liquid-filled sensing • Capillara tube length: 5 m • Body-head connection: M30×1,5 mm • Dimensions: 75×75 mm, sensor ø 50×68 mm • Colour: White RAL 9010





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