isimex

SRT-77

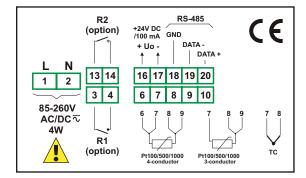
- temperature meter with 2 displays
- input: thermoresistance or thermocouple
- 0, 1 or 2 relay outputs (or OC type)
- power supply output: 24V DC
- RS-485 / Modbus RTU



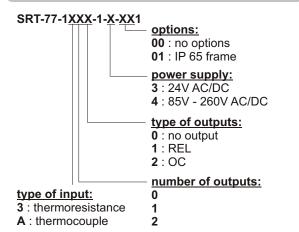
The **SRT-77** temperature meter has one input: thermoresistance (Pt100/500/1000) or thermocouple (K, S, J, T, N, R, B, E). Measurement is linearised by the polynomial characteristics. The device with thermocouple input has additional measurement range (-10 ÷ 90 mV) mainly for diagnostics of measurement circuits. The main advantage of regulator are two rows of display. The first one presents measuring value, second one - programmed values: max and min. 1 or 2 relay (or OC) outputs make it possible to control heating / cooling processes. The RS-485 enables data transmission in production process monitoring systems.

- programmable hystereses and delays of control outputs,
- password protected.
- programmable indication filtration,
- automatic recognition of 3 and 4-conductor connection (Pt inputs),
- automatic compensation of TC cold ends temperature.
- alarm diode and acoustic signal in case of sensor damage.

Examplary pin assignment

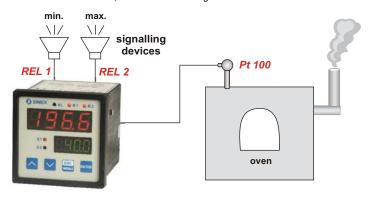


Ordering



Typical applications

1. Measuring of oven temperature in a boiler room with acoustic signalling when alarm states are overflow, readable indicating of alarm thresholds.



Technical data

Power supply: 19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC, all separated Power consumption: for 85 ÷ 260V AC/DC and 16V ÷ 35V AC power supply:

max. 4,5 VA; 19V ÷ 50V DC power supply: max. 4,5 W Display: LED, double 4 x 13 mm (red) and 4 x 10 mm (green)

Input: thermoresistance: Pt100, Pt500, Pt1000 (automatic recognition of 3 and 4-conductor

connection, resistance compensation of connecting conductors from 0 to 20 Ω at any conductor); measuring range: -100°C ÷ 600°C; resolution: 0,1°C

thermocouple: type K, S, J, T, N, R, B, E; measuring range: **K**: -200°C ÷ +1370°C; S: -50°C + +1768°C; J: -210°C + +1200°C; T: -200°C + +400°C; N: -200°C + +1300°C; R: -50°C + +1768°C; B: +250°C + +1820°C;

E: -200°C ÷ +1000°C; resolution: 1°C, additional range -10 ÷ +90 mV

Accuracy: 0.1% @25°C Stability: 50 ppm/°C

Outputs: 0, 1 or 2 relays 1A/250V AC (cosφ=1) or OC 30mA/30VDC/100 mW

Transducer power supply output: 24V DC +5%, -10% / max. 100 mA, stabilized, not insulated from measuring inputs

Communication interface: RS-485, 8N1 and 8N2, 1200 bit/s ÷ 115200 bit/s, Modbus

RTU (not galvanically insulated) Operating temperature: 0°C ÷ +50°C Storage temperature: -10°C ÷ +70°C

Protection class: IP 65 (front), available additional frame IP 65 for panel cut-out

sealing; IP 20 (case and connection clips)

Case: board

Case material: NORYL-GFN2S E1 Case dimensions: 72 x 72 x 100 mm Panel cut-out dimensions: 66.5 x 66.5 mm

Installation depth: min. 102 mm

Accessories



STD-77 Transparent door with moulded frame acc. to DIN 43700, lockable with security key.

Door and frame are made by injection moulding thus assuring an exact fit, an optimal choice of a material which is very strong and with no risk of corrosion; perfect seal-protective system IP 54 provided by all-round soft rubber sealing the moulding; door does not swing in or out sideways on opening; door-frame and front-frame can be exchanged.