

SRT-L70

- temperature meter on TS35 strip
- input: Pt100, Pt500, Pt1000
- 3 relay outputs, load capacity 8A
- RS-485 / Modbus RTU
- wide range of power supply voltages

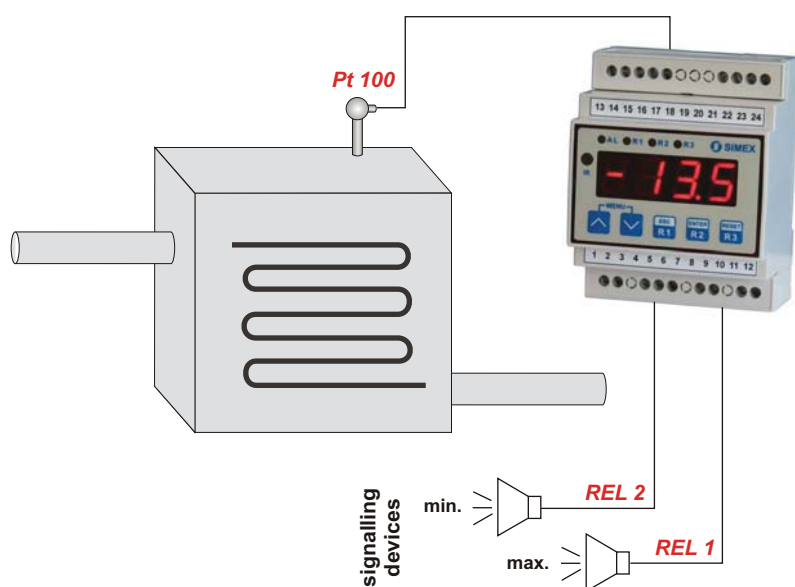


The **SRT-L70** temperature meter has a Pt100/Pt500/Pt1000 input. Measuring range contains temperatures: $-100^{\circ}\text{C} \div +600^{\circ}\text{C}$ with resolution $0,1^{\circ}\text{C}$. The nonlinear sensor characteristic is fully linearized. The additional advantage of this device is automatic recognition of 2, 3 and 4-conductor connection. There is a possibility of access to inner registers via RS-485 interface. The regulator features 3 relay outputs (2 NO and 1 NO-NC). The power supply is realized by build-in pulse feeder, which gives the correct supply in very wide range of voltages $19\text{V} \div 90\text{V DC}$; $16\text{V} \div 70\text{V AC}$ or $85 \div 260\text{V AC/DC}$.

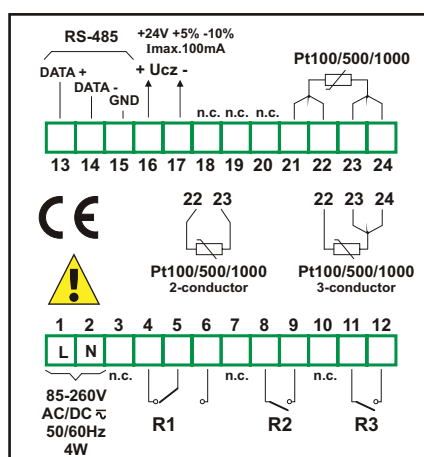
- programmable relays hystereses,
- programmable relays delays,
- adjustable display brightness,
- signal peak value detection,
- automatic recognition of 2, 3 and 4-conductor connection and sensor damage,
- alarm diode and acoustic signal in case of sensor damage or range overflow.

Typical applications

- Temperature measuring in an oven with acoustic signalling when alarm states are overflow.



Exemplary pin assignment



Technical data

Power supply: $19\text{V} \div 90\text{V DC}$; $16\text{V} \div 70\text{V AC}$ or $85 \div 260\text{V AC/DC}$, all separated

Power consumption: for $85 \div 260\text{V AC/DC}$ and $16\text{V} \div 70\text{V AC}$ power supply: max. 6,5 VA; for $19\text{V} \div 90\text{V DC}$ power supply: max. 6,5 W

Display: LED, red, 4 x 13 mm high

Input: temperature Pt100, Pt500, Pt1000, automatic recognition of 2, 3 and 4-conductor connection, not insulated from power supply

Measuring range: $-100^{\circ}\text{C} \div +600^{\circ}\text{C}$

Accuracy: $0,1\% @ 25^{\circ}\text{C}$

Stability: 50 ppm/ $^{\circ}\text{C}$

Resolution: $0,1^{\circ}\text{C}$

Resistance compensation of connecting conductors: from 0 to $20\ \Omega$ at any conductor

Outputs: 3 relays 8A/250V AC (2 NO, 1 NO-NC)

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

Communication interface: RS-485, 8N1 and 8N2, 1200 bit/s \div 115200 bit/s, Modbus RTU, (not galvanically insulated)

Operating temperature: $0^{\circ}\text{C} \div +50^{\circ}\text{C}$

Storage temperature: $-10^{\circ}\text{C} \div +70^{\circ}\text{C}$

Protection class: IP 20

Assembly: on TS35 strip

Case material: NORYL UL 94 V-0

Case dimensions: 72 x 91 x 59 mm

Ordering

SRT-L70-1331-1-X-001

power supply:

4 : 85V - 260V AC/DC

7 : 19V - 70V AC/DC