

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

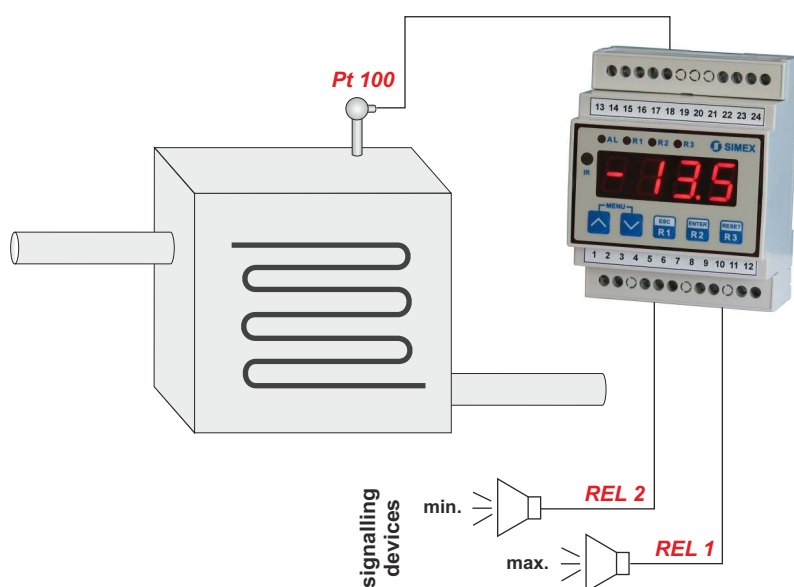


The **SRT-L70** temperature meter has a Pt100/Pt500/Pt1000 input. Measuring range contains temperatures: $-100^{\circ}\text{C} + 600^{\circ}\text{C}$ with resolution $0,1^{\circ}\text{C}$. The nonlinear sensor characteristic is fully linearized. The additional advantage of this device is automatic recognition 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 $85 \div 260\text{V AC/DC}$.

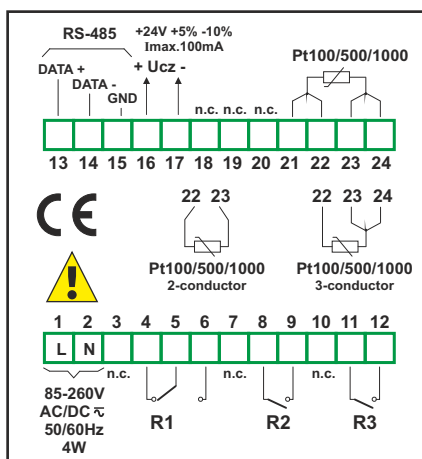
- programmable relays hystereses,
- programmable relays delays,
- adjustable display brightness,
- signal peak value detection,
- automatic recognition of 2, 3 and 4-conductor connection and sensor damage,
- alarm diode and acoustic signal in case of sensor damage or range overflow.

Typical applications

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



Exemplary pin assignment



Technical data

Power supply: $19\text{V} + 90\text{V DC}$; $16\text{V} + 70\text{V AC}$ or $85 + 260\text{V AC/DC}$, all separated
Power consumption: for $85 + 260\text{V AC/DC}$ and $16\text{V} + 70\text{V AC}$ power supply: max. 6,5 VA; for $19\text{V} + 90\text{V DC}$ 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: $-100^{\circ}\text{C} + 600^{\circ}\text{C}$
Accuracy: $0.1\% @ 25^{\circ}\text{C}$
Stability: $50 \text{ ppm}/^{\circ}\text{C}$
Resolution: $0,1^{\circ}\text{C}$
Resistance compensation of connecting conductors: from 0 to 20Ω at any conductor
Outputs: 3 relays 8A/250V AC (2 NO, 1 NO-NC)
Transducer power supply output: $24\text{V DC} + 5\%, -10\%$ / 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: $0^{\circ}\text{C} + 50^{\circ}\text{C}$ (standard), $-20^{\circ}\text{C} + 50^{\circ}\text{C}$ (option)
Storage temperature: $-10^{\circ}\text{C} + 70^{\circ}\text{C}$ (standard), $-20^{\circ}\text{C} + 70^{\circ}\text{C}$ (with option 08)
Protection class: IP 20
Assembly: on TS35 strip
Case material: NORYL UL 94 V-0
Case dimensions: $72 \times 91 \times 59 \text{ mm}$

Ordering

SRT-L70-1331-1-X-XX1

- options:**
 - 00 : no options
 - 08 : operating temp. $-20^{\circ}\text{C} + 50^{\circ}\text{C}$
- power supply:**
 - 4 : $85\text{V} - 260\text{V AC/DC}$
 - 7 : $19\text{V} - 70\text{V AC/DC}$