

SR535

Alarm Unit with Pt100 Input and 4-20 mA Output



SR535 is designed for monitoring Pt100 signals in the process industry. The unit gives alarm functions for either increasing or decreasing temperatures and for certain error states. SR535 provides a temperature linear output signal, 4-20 mA, corresponding to the measurement range.

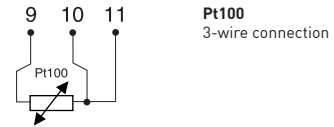
- Direct Pt100 input
- 4-20 mA output
- One temperature monitoring relay
- One error monitoring relay
- Reliable and interference free safety alarm without false alarms
- High configuration flexibility with solder jumpers
- Adjustable time delay, hysteresis and relay functions
- Available for AC or DC power supply
- DIN-rail mounting
- Plug-in screw terminals

Specifications:

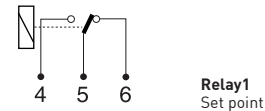
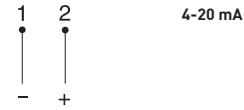
Input Pt100 (acc. to IEC 60751), 3-wire connection		Range: 0-100, 0-150¹⁾ , 0-200, 0-300, 0-500 °C
Sensor current		3 mA
Output Relay 1	Temperature monitoring	1-pole switch over contact
Selectable High or Low alarm		Jumpers on PCB (standard: High)
Adjustable alarm set-point		Front 15-turn potentiometer / test connector
Selectable alarm delay		0.4 s (standard) or 2 s, changeable on PCB
Selectable hysteresis		0.5 % (standard) or 5 %, changeable on PCB
Selectable normally active or passive function		Jumpers on PCB (standard: normally active)
Output Relay 2	Error monitoring	1-pole opening contact
Fixed, normally active and opening contact		Alarm at power failure, sensor break or high input (125 %)
Output Current		4-20 mA linear to selected temperature range
Operation temperature		-20 to +60 °C / -4 to +140 °F
Galvanic isolation	Input to relay outputs	3 700 VAC, 1 min
	Input to AC power supply	3 700 VAC, 1 min
	Input to DC power supply	1 500 VAC, 1 min
	Relay outputs to power supply	3 700 VAC, 1 min
	Input to mA output	Not isolated
Power supply	AC versions	230 VAC, -15..+10 %, 45..75 Hz
		115 VAC, -15..+10 %, 45..75 Hz
	DC version	19 to 60 VDC
Typical accuracy	Trip point, mA output	± 0.1 % of span
Connections	Plug-in terminals	Stranded, ≤ 2.5 mm ² , AWG 14
Mounting		Rail acc. to DIN EN 50022, 35 mm

¹⁾factory set

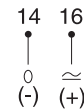
Input connections



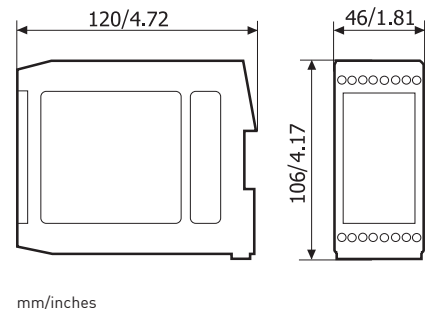
Output connections



Power supply



Dimensions



Ordering information

SR535, 0-150 °C, 230 VAC	51MOE00012
SR535, 0-150 °C, 115 VAC	51MOE00085
SR535, 0-150 °C, 19-60 VDC	51MOE00013
Configuration for other range	70CAL00003