

■ CO 9000 RTD-Thermostat Model

Highlights

- 4 progr. temperature threshold values
- 4 separate solid state output channels
- High reliability
- Low power consumption
- Compact housing



General

The thermostat **CO 9000** is a microprocessor controlled measuring device especially developed for locomotive applications. For instance it is possible of controlling four different oil-temperatures of a circular course.

The thermostat is provided with 4 threshold values. The threshold values and the corresponding hysteresis can be programmed according to the specifications of customers.

The temperature is measured by a sensor of the type Pt 100. When running the measured value is monitored. Passing over or falling short of the programmed threshold values will be indicated by a corresponding isolated contact.

Measuring Range of RTD

-40°C ... +100°C

Temperature Sensor

- Pt 100
- Optional Pt 1000

Functions

- Two-wire measurement
- Measuring current 2 mA
- Averaging with a digital first order filter
- 4 programmable limiting values
- 4 semiconductor relays outputs
- power supply 24 VDC

Housing

- DIN-rail Mounting according to EN 50022
- Polyamid PA 6.6 case
- 12 Screw terminals for wiring
- Construction width only 17,5 mm

The CO 9000 has a snap-in case for 35 mm DIN-rail mounting.

For connexions there are 12 screw terminals provided. The screw terminals can be used for rigid or flexible cables with a cross-section from 0,2 to 2,5 mm². The nominal load for the screw terminals is 250V / 24A.

Technical Data

Pt100-Input	
Measuring current	: 2 mA
Threshold value A, B, C, D	: programmable
Tolerance	: < 1°C
Output	: 4 SPST
max. switching voltage	: 33 V
max. switching current	: 100 mA
Power supply	: 16,8 V...31,2 V DC
Current consumption	: max 31 mA
General	
EMC	: acc. ENV 50121-3-2
Protection	: IP40
pcb	: varnish coating
Inflammability	: VO (UL94)
Mounting	: EN 50022
Operating Temperature	: -25 to +70 °C
Shock resistance	: acc. VDE 0115/part 200/ page 52/10.2.11
Dimensions	: 99 x 114,5 x 17,5 mm
Weight	: 100 g

Example of Configuration:

Order Information	Contact	on	off
CO 9000-00402	A	5°C	7°C
	B	45°C	35°C
	C	50°C	40°C
	D	65°C	55°C

The requested on set points has to be specified when ordering.

Power Supply Voltages

CO 9000-	X	XXXXX
		Configuration
		Power supply
	0	18...36 V DC (Standard)
	1	4,5...9 V DC (Option)
	2	9...18 V DC (Option)
	3	36...48 V DC (Option)

