



RTD Temperature Monitoring Sensor(-50+50)

Revision Date: 9/26/2025

Use Status: In Use

Description:

When performance and accuracy are a must, Rees Scientific can offer our RTD temperature sensors. These RTD sensors are available in a variety of temperature ranges, all designed to meet your monitoring needs. Rees Scientific can also offer certified RTDs. Certified RTD's include a calibration certificate to verify that the sensor was factory calibrated at five points over the operation range of the sensors. Rees Scientific offers loop calibration services to accompany these certified sensors (must be re-done each year)



Rees Info	
General Info	
Centron Input Number	1.0
Centron 1	
TestWireless Reads	4-20mA
Workstation Reads	Linear Transducer
Is it 4-20mA?	Yes
M Value	25.1004
B Value	-75.0
Units	C

Power	
Supply Voltage (VDC) Min	7.0
Supply Voltage (VDC) Max	35.0
Comes with Transformer	False

Physicalities	
Height (inches)	2.2
Width (inches)	4.06
Depth (inches)	2.0
Color	Gray
NEMA Rating	4X
Is probe removable?	True
Cable Length (feet)	10.0
Probe Diameter (inches)	0.25
Probe Length (inches)	4.0
Probe Material	Stainless Steel

Sensor Info	
General Info	
Operating Temperature Min of Transmitter (C)	0.0
Operating Temperature Max of Transmitter (C)	70.0
Sensor Technology	1K Platinum RTD
Rees Calibrated	False
Factory Calibrated	False
Site Calibrated	False
Types of Measurands	Temperature
Measurands	
Temperature	
Measurement Min	-50.0
Measurement Max	50.0
Measurement Units/Information	C
Accuracy	+/- 1.5 % of sensor span error in the 4-20 mA output signal.
Output	4 to 20 mA
Additional Detail	RTD Sensor Alone: Class B RTD = $\pm(0.30 + 0.005 \cdot t)$ where t is temperature in degrees C
Repeatability	+/-0.3°C (+/-0.54°F)