



RTD Transmitter

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TRANSMITTER FOR RTD TEMPERATURE SENSORS

- PT100
- PT1000
- ...

Specifications

Amplification type	Two wire (4 to 20) mA current Loop
Input resistance	(10 to 500) $\Omega \pm 0.055 \Omega$, (500 to 2500) $\Omega \pm 0.5 \Omega$
Power	<1W full power
Resistance	249 Ohms (0.1%)
Output voltage	996...4980mV
Excitation current	<200 μ A
Accuracy	0.2 °C + (° 0.05% of reading) + (sensor)
Isolation	Input / Output
Operating temperature	-40...+85°C
Supply voltage	10...30Vdc
Response time	500ms
Calibration (logger: Type NRG)	Slope[°C/V]=55,555, Offset[°C]=-86,39

WIRING TABLE

TEMPERATURE SENSOR		TRANSMITTER		Orbit 360		
				Section	Terminal	Type
Wire 1	1	+	Vcc (12V)	Power Input		
Wire 2	2	SIG	Amplified signal	Analog Channels	48 52 56 60 65 69 73 77 81 84 85 86 90 91 92	Signal
		GND	Reference (-)	Power Input		(-)