

DRA-RTT-2 DIN Rail Mount 2-Wire RTD Input Signal Conditioner



- ✓ ±0.1% Accuracy
- ✓ Linearized
- ✓ Field Rangeable
- ✓ Non-Isolated
- ✓ Economical

Model DRA-RTT-2 is a non-isolated signal conditioner that accepts 100 Ohm Platinum RTD input and converts this into a 4-20 mA process current output which is linearly proportional to temperature. These signal conditioners incorporate excellent lead wire compensation and linearization circuitry.

Field ranging is accomplished by using an internal DIP switch array for coarse range setting and front panel accessible multi-turn zero and span potentiometers for fine tuning. Test terminals are provided to monitor the transmitter's 4-20 mA output without disturbing the actual process loop.

Specifications

Input: 3-wire Pt 100 RTD, $a = 0.00385$, according to DIN 43760/BS1904

Input Span Range: 86 to 1490°F (30 to 810°C)

Input Zero Range: -67 to 395°F (-55 to 202°C)

Field Ranging: done by three "zero" DIP switches, three "span" DIP switches and two fine tuning potentiometers

RTD Sensor Lead Resistance: < 50 Ohms (two ways)

Lead Compensation Error: < ±0.05 °C/10 Ohms lead resistance

Sensor Excitation: < 1 mA

Output: 4-20 mA

Test Terminals: 40-200 mV represents 4-20 mA

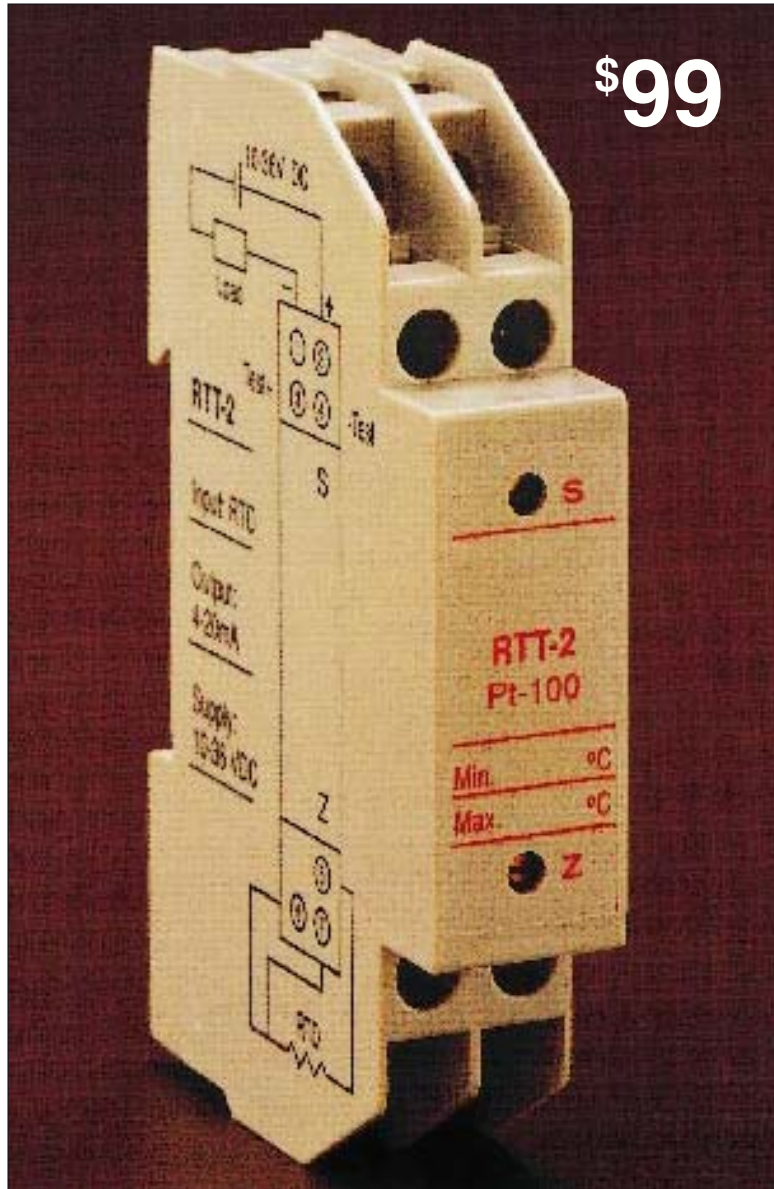
Supply Voltage: 10-36 Vdc

Supply Variation Effect: < ±0.03% of span for full change

Accuracy: < ±0.1% of span (including linearity, hysteresis and repeatability)

Loop Resistance: $R_{max} \text{ (Ohms)} = (V_{supply} - 10)/0.02$

Temperature Stability: < ±0.015% of span/°C



\$99

Ambient Temperature Range: -4 to 158°F (-20 to 70°C), 5-95% RH

Storage Temperature Range: -22 to 185°F (-30 to 85°C)

Enclosure: polycarbonate, IP40 protection

Terminal Housing: polycarbonate, IP20 protection

Mounting: 35 mm DIN rail

Dimensions: 3.54" H x 0.7" W x 2.28" D (90 x 17.5 x 58 mm)

Weight: 2.5 oz (70 g)

To Order (Specify Model Number)		
Model No.	Price	Description
DRA-RTT-2	\$99	Non-isolated RTD input signal conditioner
DRN-PS-1000	150	Power supply, 95-240 Vac input, 24 Vdc @ 1 A output

Comes with complete operators manual.

Ordering Example: DRA-RTT-2 non-isolated RTD input signal conditioner with DRN-PS-1000 power supply, \$99 + 150 = \$249.

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