

Pt-100 INPUT 2-WIRE TRANSMITTER

RTR-2

- *ACCURACY OF 0.1%*
- *PLATINUM LINEARIZATION*
- *DIP-SWITCH MULTI-RANGE*
- *LOW COST*



The RTR-2 is a non-isolated two-wire transmitter which converts the measuring signal of a platinum Pt-100 into standardized load-independent, 4-20mA current, linearly proportional to the measured temperature.

The RTR-2 transmitter is provided with excellent lead resistance compensation and Pt-100 linearization conforming to BS 1904 characteristics.

Calibration is performed by means of a DIP switch array located below the red cover for coarse range setting and two, Zero and Span, multiturn potentiometers for final fine-tuning.

In order to get access to the DIP switch array, the red cover should slide inward.

The RTR-2 is housed in a Polycarbonate plastic enclosure fitting into DIN B connection heads.

SPECIFICATIONS

RTR-2

INPUT:

3-wire Pt-100 according to BS 1904 and DIN 43760 characteristics.

INPUT SPAN RANGE: 30 to 810°C

INPUT ZERO RANGE: -55 to +202°C

CALIBRATION:

Three "Zero" DIP switches,
Three "Span" DIP switches,
Two fine-tuning potentiometers

SENSOR LEAD RESISTANCE:

< 50Ω (two ways)

LEAD COMPENSATION ERROR:

< ±0.05°C/10Ω lead resistance

SENSOR EXCITATION: < 1 mA

OUTPUT CURRENT:

4 - 20 mA

(~28 mA limited)

SUPPLY VOLTAGE:

10 - 36 Vdc. (Reverse polarity protected)

SUPPLY VARIATION EFFECT:

< ±0.03% of span for full change

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

LOAD RESISTANCE:

$R_{max} (\Omega) = (V_{supply} - 10)/0.02$

TEMPERATURE STABILITY:

< ±0.015% of span/1°K

OPERATING TEMPERATURE:

-40 to +85°C

HUMIDITY: 5 - 95% relative, non condensed

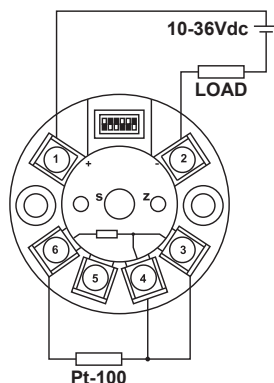
CASE: Polycarbonate

WEIGHT: 45gr.

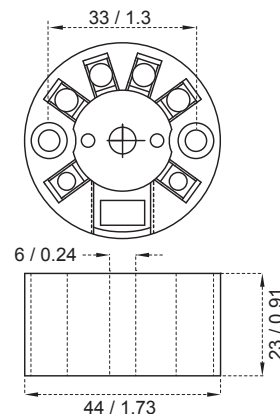
Getting Access to the DIP-Switch



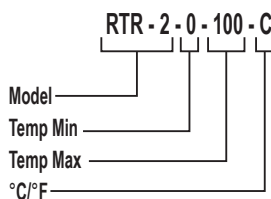
Connection Diagram



Dimensions (mm / inch)



Ordering Information:



Data subject to change without notice

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