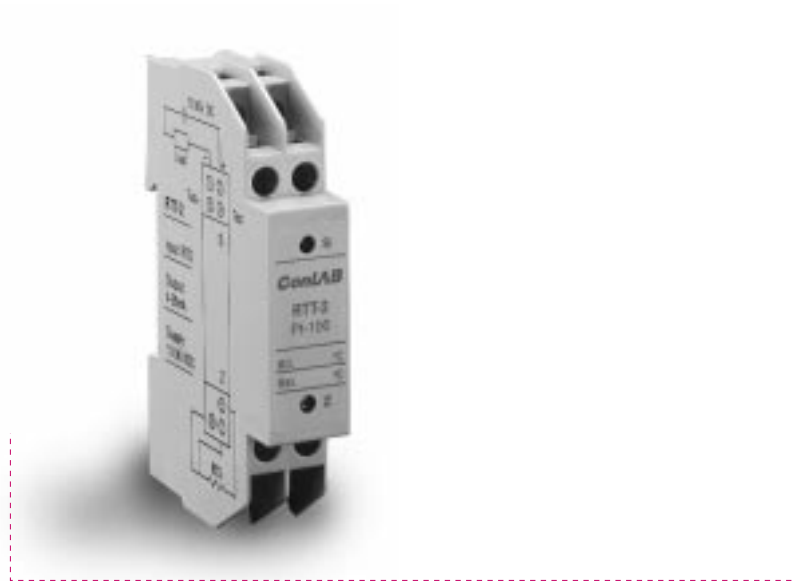


RTD INPUT 2-WIRE TRANSMITTER

RTT-2

- ACCURACY OF 0.1%
- PLATINUM LINEARIZATION
- DIN RAIL MOUNTED
- LOW COST
- 3-YEAR WARRANTY



The RTT-2 is a non-isolated two-wire transmitter which converts the measuring signal of a resistance-temperature-detector (RTD) into a standardized load-independent current, linearly proportional to the measured temperature.

The RTT-2 transmitter is provided with excellent lead resistance compensation and Pt-100 linearization.

Calibration is performed by means of an internal DIP switch array for the coarse range setting and two (Zero and Span) front accessible multi-turn potentiometers which are used for the final fine-tuning.

The RTT-2 is equipped with "test" terminals which enable monitoring of the output current by measuring the voltage drop across a 10 Ω internal resistor, without opening the current loop.

The RTT-2 is housed in a low profile, polycarbonate plastic enclosure mounted on a standard DIN rail.

The RTT-2 units can be mounted, side by side, with no wasted space in high density installation.

SPECIFICATIONS

RTT-2

INPUT:

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

Option: Pt-50, 500, Cu-10, Ni-120

INPUT SPAN CHANGE: 30 to 810°C

INPUT ZERO CHANGE: -55 to +202°C

CALIBRATION:

Three "Zero" DIP switches,

Three "Span" DIP switches

and 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)

TEST TERMINALS: 40 to 200 mV represent 4-20 mA

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°C

OPERATING TEMPERATURE:

-20 to 70°C

Option: -30 to +85°C

Storage: -40 to +90°C

HUMIDITY: 5 - 95% relative, non condensed

MOUNTING: Standard 35mm DIN rail

HOUSING: Plastic Polycarbonate

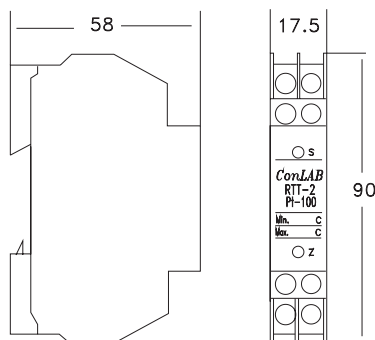
PROTECTION LEVEL:

Box: According to IP-40

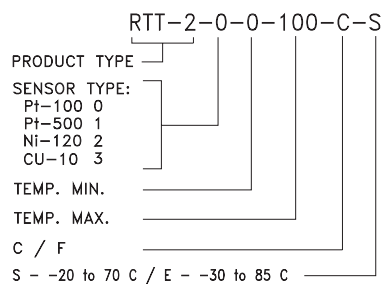
Terminals: According to IP-20

WEIGHT: 70 grams

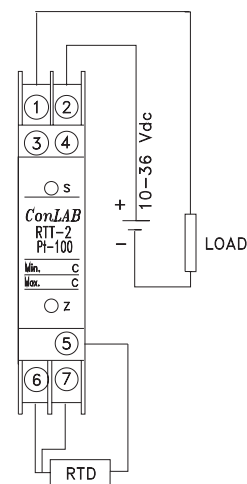
Dimensions (mm)



Ordering Information



Connection Diagram



data subject to change without notice

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Control Laboratories Ltd.

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