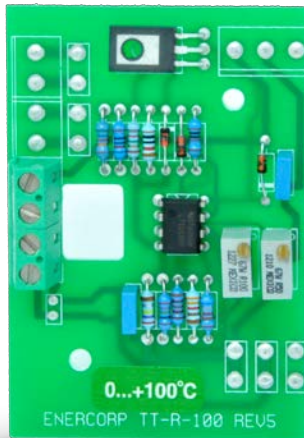# Temperature Transmitter: TT-R-100 Series

The TT-R-100 is used to convert a 2 wire Pt100 RTD temperature sensor to a 4...20mA signal. The output is proportional over a selected span and a diode protects against reverse polarity.

◆ Wide operating range
◆ Cost effective
◆ Multiple installation options

Technical Data

Stock ranges: -50…50ºC, 0…50ºC, 0…100ºC

Sensor type: Pt100 RTD

Output signal: 4…20mA

Accuracy: 1%

Linearity: +/- 0.1% of span

Power supply: 24 VDC (15…30 VDC)

Supply voltage error: 0.1% max of full-scale per volt deviation from 24 VDC

Temperature drift: 0.12% of span/ºC

Maximum load: (Vsupply-14)/20mA

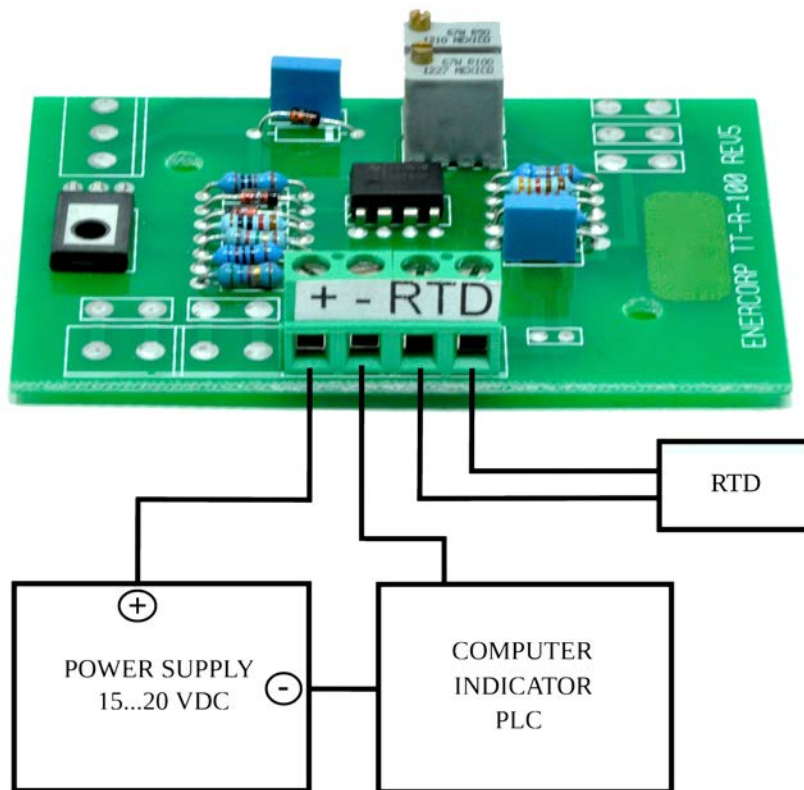**Environmental**: -20…70ºC, 0…95% RH, non-condensing

Enclosure:

- Snap track: snap track channel with two mounting holes
- Blue box: molded case with hinged cover and captive screw, not weatherproof
- DIN rail: plastic, polyamide

Industry Usage

HVAC, Building automation, Energy management, Waste management, Food processing, Pharmaceutical

ENERCORP instruments ltd

RTD

+ - RTD

ENERCORP TT-R-100 REV5

RTD

POWER SUPPLY
15...20 VDC

+

–

COMPUTER
INDICATOR
PLC

Ordering Data

TT -　(enclosure type　　) - R - 100/ (temperature range)
　　　　= no enclosure　　　　stock ranges: -50…50ºC, 0…50ºC, 0…100ºC
　　BB = blue box
　　ST = snap track
　　DR = DIN rail

ie. TT-R-100/-50C50C: Temperature transmitter with -50…50ºC temperature range

ie. TT-DR-R-100/0C100C: Temperature transmitter mounted in DIN rail with 0…100ºC
　　　　　　　　　temperature range

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