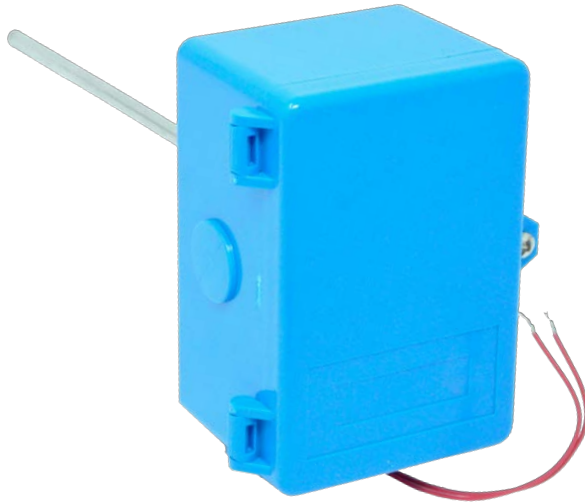


# Duct Air Temperature



The duct air temperature sensor is an ideal balance between ruggedness, quality, and affordability. The case provides protection and a flush mounting surface.

- ◆ Easy installation
- ◆ Rapid response
- ◆ Rugged construction

## Technical Data

**Wire:** 22 AWG, PVC/PVC

**Lead length:** 6" flying leads

**Sheath material:** 316 stainless steel

**Probe diameter:** 1/4"

**Probe length:** see ordering data

**Sensor type:** Pt100 RTD, Pt1000 RTD, 10K Thermistor

**Accuracy:**

- Pt100: +/- 0.3°C, DIN EN 60751 (according to IEC 751)
- Pt1000: +/- 0.3°C, DIN EN 60751 (according to IEC 751)
- 10K: +/-0.2°C (0...70°C), NTC standard

**Operating temperature:** -30...100°C

**Enclosure:** moulded case with hinged cover and captive screw, not weatherproof

**Termination connection type:** tails c/w bare ends or 2 wire temperature transmitter

2 wire temperature transmitter mounted in enclosure available only for Pt100

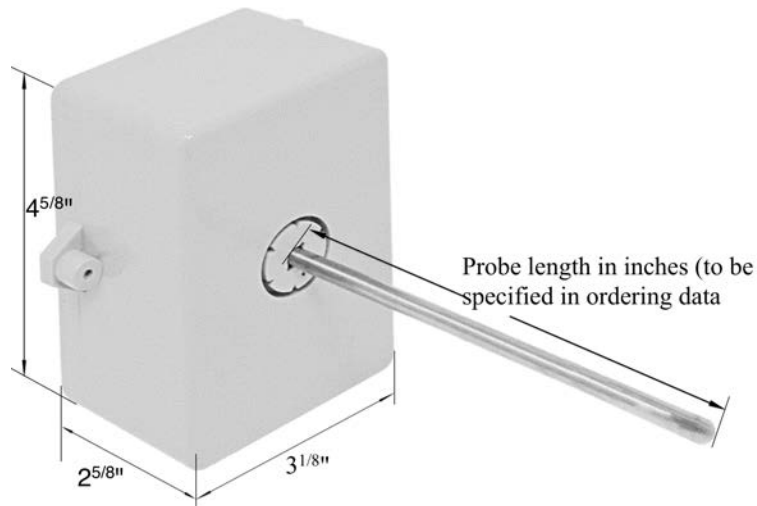
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Tel: 416-231-5335, Toll free: 1-800-363-7267

### Industry Usage

HVAC, Building automation, Energy management, Waste management

Dimensions



### Ordering Data

TS-D- (probe length)-( sensor type )-( sensor value )

in inches R = RTD 100 = 100 ohms

1000 = 1000 ohms

T = Thermistor 10K = 10 K ohms

ie. TS-D-12-T-10K: duct temperature sensor 12" long probe with 10K thermistor

TT-D- (probe length)-R -100/(temperature range)

in inches

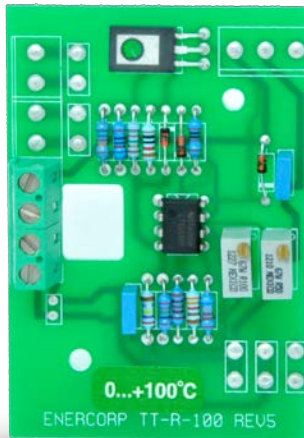
ie. TT-D-12-R-100/-50C50C: duct temperature transmitter 12" long probe with 100 ohm RTD and temperature transmitter with a temperature range of -50...50°C

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# 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...50°C, 0...50°C, 0...100°C

**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/°C

**Maximum load:** (Vsupply-14)/20mA

**Environmental:** -20...70°C, 0...95% RH, non-condensing

### **Enclosure:**

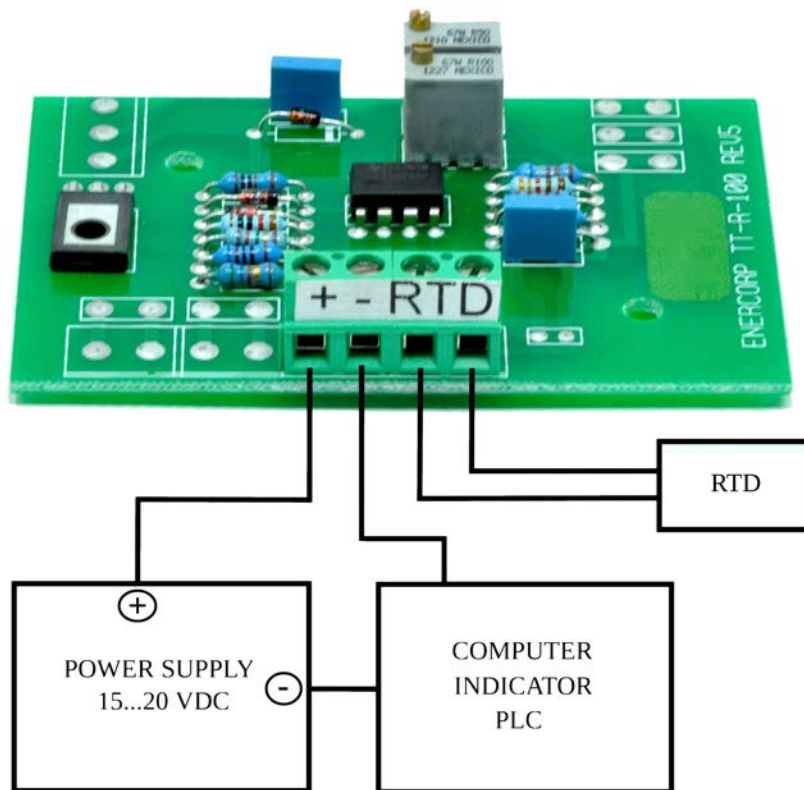
- Snap track: snap track channel with two mounting holes
- Blue box: molded case with hinged cover and captive screw, not weatherproof
- DIN rail: plastic, polyamide

## Industry Usage

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

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Tel: 416-231-5335, Toll free: 1-800-363-7267



### Ordering Data

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

ie. TT-R-100/-50C50C: Temperature transmitter with -50...50°C temperature range

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