

# Averaging flex cable temperature probe



The TS-FC is a multi-sensor instrument that returns an average temperature measurement from multiple elements over several feet of flexible cable. The case provides a sturdy, flush mounting enclosure.

- ◆ Completely flexible
- ◆ Conforms to any duct size
- ◆ Easy installation

## Technical Data

**Wire:** 24 AWG, FT6 plenum cable

**Cable 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

**Number of elements:**

- 24 feet cable length: 9 elements
- 20 feet cable length: 4 elements

**Operating temperature:** 0...60°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

Available with 2 wire temperature transmitter mounted in enclosure for Pt100 only

### Industry Usage

HVAC, Building automation, Energy management, Waste management

### Ordering Data

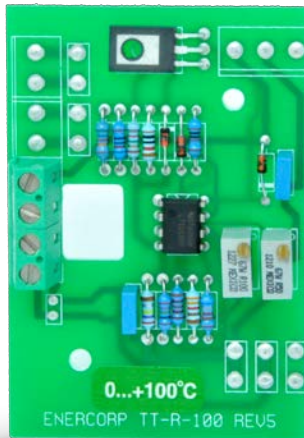
TS-FC- ( cable length )-(# of sensors)-( sensor type )-( sensor value )  
12 = 12 feet      4 or 9      R = RTD      100 = 100 ohms  
1000 = 1000 ohms  
T = Thermistor      10K = 10 K ohms

ie. TS-FC-12-4-R-1000: Averaging flex cable sensor, 12 feet long with 4 Pt 1000 sensors

TT-FC-( cable length )- (# of sensors)-R-100/(transmitter temp range)  
12 = 12 feet      4 or 9

ie. TT-FC-24-9-R-100/-50C50C: Averaging flex cable sensor, 24 feet long with 9 Pt 100 sensors and a temperature transmitter with -50...50°C range

# 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:**

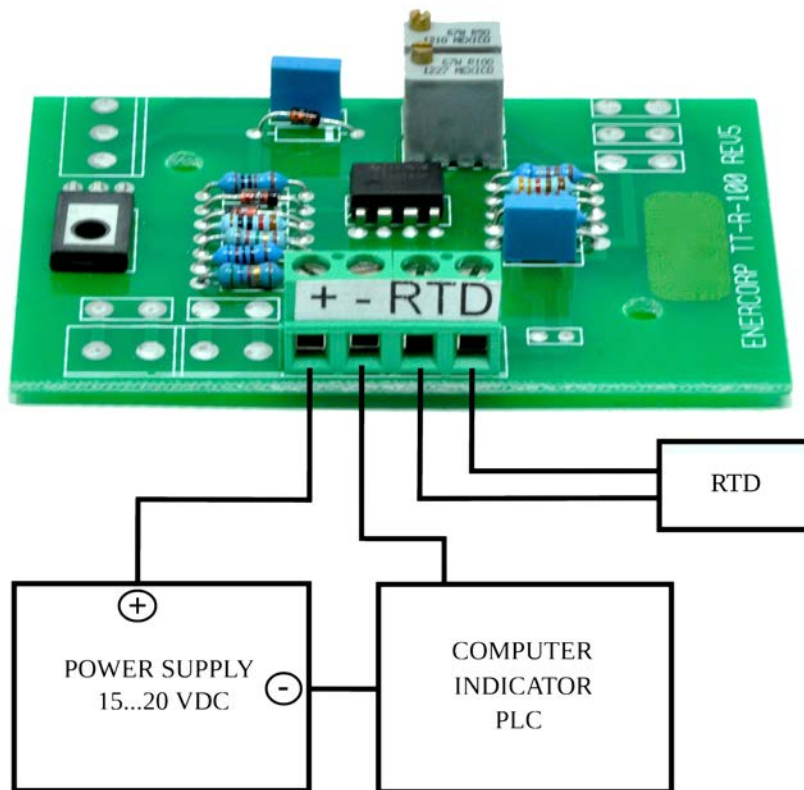
- Snap track: snap track channel with two mounting holes
- Blue box: molded case with hinged cover and captive screw, not weatherproof
- DIN rail: plastic, polyamide

## Industry Usage

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

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### 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