

Product Features

- 2-wire loop powered 4-20mA output
- Linearized output to voltage
- Input T/C with cold junction compensation
- Analog design, potentiometer adjustable
- Factory calibrated for fixed range
- Metal housing
- Fits Standard Heads

Description

The TT810 loop powered transmitter receives and measures signals from thermocouples and sends an output current of 4-20mA which is directly proportional to the thermocouple millivolt input. The TT810 transmitter accepts thermocouple sensor types J, K, T, or E

The wide temperature range and stocked availability make the TT810 an excellent choice for temperature signal transmission. It is factory calibrated and designed for highest performance and lowest cost.

Precision 20-turn potentiometers allow fine adjustment of ZERO and SPAN. TT810 units fit into industry standard connection heads.



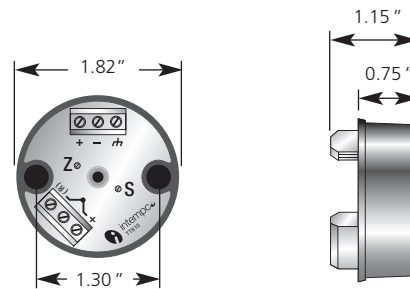
Specifications

@Vnom = 24 VDC, T.ambient = 25°C, Span nom. = 100 °C

Input :	T/C type J, K , T or E
Output :	4-20mA loop powered
Linearization :	Linear to mV, not to temperature
Power Supply :	12-32VDC, polarity protected
Supply Effect :	0.02 % / V
Temperature Drift (including cold junction drift)	
Zero Drift :	±0.01 % FS/ °C
Span Drift :	±0.01 % FS/ °C
Sensor Lead Resistance :	10K ohms max.
Accuracy :	0.15% FS (includes effects of linearity, hysteresis and repeatability)
Span/Zero Adjustment :	20 turn potentiometer, ±10 % for zero and span
Maximum Loop Resistance :	Rmax. = [Vsupply – 9VDC] / 20mA
Warmup :	30 seconds
Ambient Operating Temperature :	-40°C.....80°C (-40 °F....176 °F)
Storage Temperature :	-40°C.....80°C (-40 °F....176 °F)
Housing Material :	Die Cast Zinc, Enamel Painted
Housing Dimensions :	1.82" dia. x 1.15" H

- Information furnished by Intempco is believed to be accurate and reliable. However, no responsibility is assumed by Intempco for its use.
- Specifications subject to change without notice.

Dimensions



Temperature Standard Ranges		Input			
°C	(°F)	K	J	T	E
-50/+50	(-58/+122)				
0/+50	(32/+122)				
0/+100	(32/+212)		•	•	•
0/+200	(32/+392)	•	•	•	•
0/+300	(32/+572)	•	•	•	•
0/+400	(32/+752)	•	•	•	•
0/+600	(32/+1112)	•	•		•
0/+800	(32 /+1472)	•	•		
0/+1000	(32/+1182)	•			
0/+1200	(32 /+2192)	•			

For non-standard temperature ranges, specify range

Custom Builder

Model	Input Code	Range
TT810	K, J, T, E	(___ / ___)

Ex.: TT810 - J - (0/100°C)