TT820

Programmable Thermocouple Temperature Transmitter w / 4-20 mA Output

intempco

Product Features

- *Microprocessor-Based design*
- *Linearized output to temperature*
- *2-wire loop powered 4-20 mA output*
- *Input T/C with cold junction compensation*
- *Factory Calibrated*
- *Re-Programmable via PC*
- *Metal housing*
- *Fits Standard Heads*

Description

The TT820 is a low cost microprocessor-based 2-wire DIN rail-mounting transmitter. The TT820 features a one point calibration adjustment with two push buttons as well as an advanced software programming via the RS-232 input. The advanced programming allows two points calibration, re-scaling, filtering options and identification of the transmitter.

TT820 is designed for highest reliability and excellent industrial performance. Automatic cold junction compensation and a low-drift input amplifier maintain accuracy under varying ambient conditions.
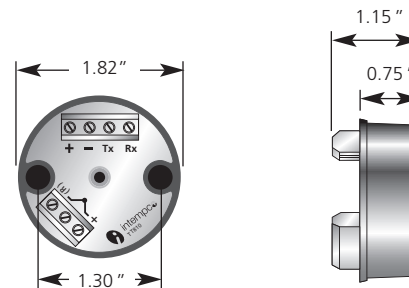

Dimensions

1.82"
1.15"
0.75"
1.30"

Specifications

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

Input :	T/C type J, K , T or E
Output :	4-20 mA loop powered
Linearization :	Linear to temperature
Power Supply :	12-32 VDC, polarity protected
Supply Effect :	0.02 % / V
Zero Drift :	±0.1% FS / °C
Span Drift :	±0.1 % FS / °C
T/C Cold Junction Error :	K : ±1 °C max. at - 20 to 50 °C J : ±2 °C max. at - 20 to 50 °C T, E : ±3 °C max. at - 20 to 50 °C
Sensor Lead Resistance :	10 K ohms max.
Accuracy :	0.5 % FS (includes effects of linearity, hysteresis and repeatability)
Warmup :	30 seconds
Ambient Operating Temperature :	-40°C.....80°C (-40 °F....176°F)
Storage Temperature :	-40°C.....80°C (-40 °F....176°F)
Maximum Loop Resistance :	Rmax. = [Vsupply – 9 VDC] / 20 mA
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 responsability is assumed by Intempco for its use.*
- *Specifications subject to change without notice.*

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
TT820	K, J, T, E	(___ / ___)

Ex.: **TT820 - J - (0/100 °C)**