

- **Linearized Output To Temperature:**
  - ±0.1% For RTD's
  - ±1.0% For Thermocouples
- **High Quality**
- **Fits Standard Heads**
- **Lowest Cost**
- **Factory Calibrated**



#### Specifications

$V_{nom} = 24 \text{ VDC}$ ,  $T_{ambient} = 24^\circ\text{C}$

Span<sub>nom</sub>: RTD (Pt100) = 100°C

TC = 250°C (reference to full scale)

#### GENERAL

**Output:** 4-20mA two wire

**Power Supply:**

10-36 VDC polarity protected

**Supply Voltage Effect:** ±0.001% / V

**Open Circuit Detection:**

Up scale, greater than 23mA, limited to 40mA.

**Load Capability:**

$R_{max} = (V_{supply} - 10V) / 20mA$

**Zero Drift:** ±0.05% / °C

**Span Drift:** ±0.05% / °C

**Ambient Operating Temperature:**

-40 to +70°C (-40 to +158°F)

**Storage Temperature:**

-40 to +100°C (-40 to +212°F)

**Zero and Span Adjustment:**

20 turn potentiometer

± 25% for zero and span

**INPUT: RTD Pt-100 ( $\alpha = 0.00385$ )**

**Linearity to Temperature:**

± 0.1% or better

**Excitation Current:** 0.2mA

**INPUT: THERMOCOUPLE**

**Input Types:** K, J, T & E (ungrounded best)

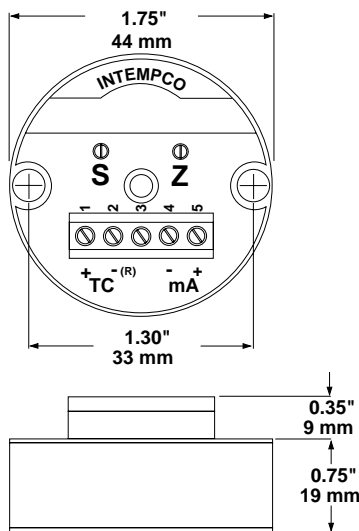
**Linearity to Temperature: Model T810**

voltage linear

**Model T810L Output:**

linearized to temperature, ± 1.0%

**T/C Cold Junction Drift:** 0.05°C / °C



The T810 Series temperature transmitters feature linearized output to temperature for both RTD's and optional for thermocouples. They are factory calibrated and designed for highest performance and lowest cost. The wide temperature range and stocked availability make T810 an excellent choice for temperature signal transmission. A linearized output for RTDs, and especially thermocouples, is a unique performance feature of these transmitters. Thermocouples are highly non-linear and major errors can occur

when conventional transmitters are used over wide temperature ranges. The T810 has been designed to eliminate this problem.

Standard Ranges						
°C	(°F)	Pt 100	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 / +1832)		•			
0 / +1200	(32 / +2192)		•			

For non standard ranges specify range

Ordering Data			
Model	Input	Option	Range
RT810	Pt100-P	None	( )
TT810	K,J,T,E	L (linear)	( )

Ex1: RT810-(0/100) - RTD transmitter 0 -100°C

Ex2: TT810L-J-(0/400) - T / C transmitter, Type J, Linearized, 0-400°C

