Product Features

- **High Quality**
- **4-20mA Loop Powered**
- **Analog Design**
- **Linearized Output To Temperature**
- **Economical**
- **Fits Standard Heads**
- **Factory Calibrated**
- **3 Wires Compensation**

Description

The RT810 Series loop powered RTD temperature transmitters are of analog design and offer an excellent price / performance ratio. Factory calibrated in many temperature ranges and stocked availability make RT810 a perfect choice for temperature signal transmission.

Precision 20-turn potentiometers allow fine adjustment of ZERO and SPAN. RT810 units are completely linearized and fit into industry standard small connection heads.
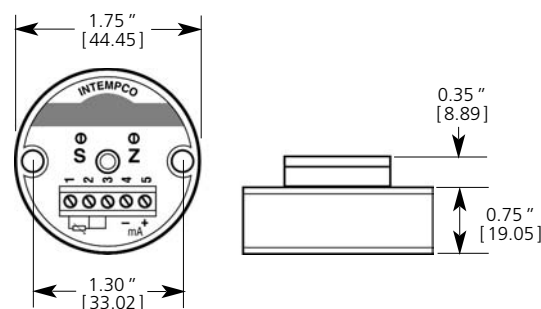

Specifications

@Vnom : 24 VDC, Tambient = 25°C
  Span nom. : RTD (Pt100) = 100°C

Output :	4-20mA two wire
Power Supply :	9-36 VDC, polarity protected
Supply Voltage Effect :	±0.02% / V
Open Circuit Detection :	Up scale, greater than 23mA, limited to 40mA.
Load Capability :	Rmax.=(Vsupply - 9V) / 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 (α=0.00385)
Linearity to Temperature :	±0.1% or better
Sensor Lead 3-wire Compensation:	0.01 °C/Ohm, 500 Ohm max.
Excitation Current :	0.8mA

Dimensions

1.75″ [44.45]
0.35″ [8.89]
0.75″ [19.05]
1.30″ [33.02]

Standard Ranges

°C	(°F)	Pt 100
-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)	•

For non standard ranges, specify range

Ordering Information

Model	Range
RT810	(/)

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