

Product Features

- High accuracy ($\pm 0.1\%$)
- 2-wire loop powered 4-20mA output
- Linearized output to temperature
- Input RTD Pt100 with 3-wire compensation
- Analog design, potentiometer adjustable
- Factory calibrated for fixed range
- Metal housing
- Fits standard heads

Description

The RT810 Series analog 2-wire, or loop powered, temperature transmitters offer the most effective price/performance ratio in the industry. Factory calibrated for fixed range, they provide a 4-20 mA output linearized to temperature for Pt100. The wide temperature range and stocked availability make the RT810 an excellent choice for temperature signal transmission.

Precision 20-turn potentiometers allow fine adjustment of ZERO and SPAN. RT810 transmitters are of high quality, very accurate, completely linearized and fit into industry standard connection heads.

Specifications

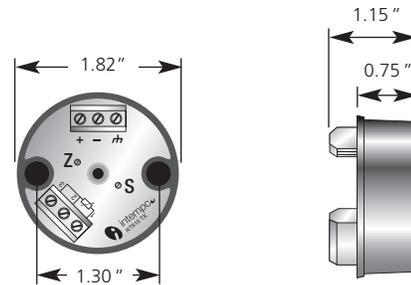
@Vnom = 24 VDC, T.ambient = 25°C, Span nom. = 100°C

Input :	Pt100, 3-wire, $\alpha = 0.00385$, DIN EN 60751
Output :	4-20 mA loop powered, linear to temperature
Linearization :	$\pm 0.01\%$ FS
Power Supply :	12-32VDC, polarity protected
Supply Effect :	0.02 % / V
Zero Drift :	$\pm 0.01\%$ FS / °C
Span Drift :	$\pm 0.01\%$ FS / °C
Long Term Drift :	$\pm 0.05\%$ FS / year
Excitation Current RTD :	0.8 mA
Sensor Lead Resistance RTD :	500 ohm max.
Accuracy :	0.1 % FS (includes effects of linearity, hysteresis and repeatability)
Span/Zero Adjustment :	20 turn potentiometer, $\pm 10\%$ for zero and span
Maximum Loop Resistance :	$R_{max} = [V_{supply} - 9VDC] / 20mA$
Open Circuit Detection :	Over-scale limit (27.0 mA) or Under-scale limit (2.2 mA)
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)	Pt100 (P)
-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)	•

For non-standard temperature ranges, specify range

Custom Builder

Model	Input Code	Range
RT810	P	(___ / ___)

Ex.: RT810 - P - (0/100°C)