



The Model RT810D is one of the smallest 2-wire DIN rail-mounting RTD temperature transmitters available. RT810D Series temperature transmitters feature linearized output to temperature for RTD's. The wide temperature range, low cost and stocked availability make the RT810D an excellent choice for temperature signal transmission.

Precision 20-turn potentiometers allow fine adjustment for ZERO and SPAN. They are factory calibrated and designed for highest performance and lowest cost. Customer can change the temperature range by simple on-board replacement of two resistors.

Specifications

$V_{nom} = 24 \text{ VDC}$, $T_{ambient} = 24^{\circ}\text{C}$
 $Span_{nom}$: RTD (Pt100) = 100°C

GENERAL

Output: 4-20mA two wire

Power Supply:

10-36 VDC polarity protected

Supply Voltage Effect: $\pm 0.02\% / \text{V}$

Open Circuit Detection:

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

Load Capability:

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

Zero Drift: $\pm 0.05\% / ^{\circ}\text{C}$

Span Drift: $\pm 0.05\% / ^{\circ}\text{C}$

Ambient Operating Temperature:

-40 to $+70^{\circ}\text{C}$ (-40 to $+158^{\circ}\text{F}$)

Storage Temperature:

-40 to $+100^{\circ}\text{C}$ (-40 to $+212^{\circ}\text{F}$)

Zero and Span Adjustment:

20 turn potentiometer

$\pm 25\%$ for zero and span

Dimensions:

62mm H x 65mm D x 18mm W
 (2.44" H x 2.56" D x 0.71" W)

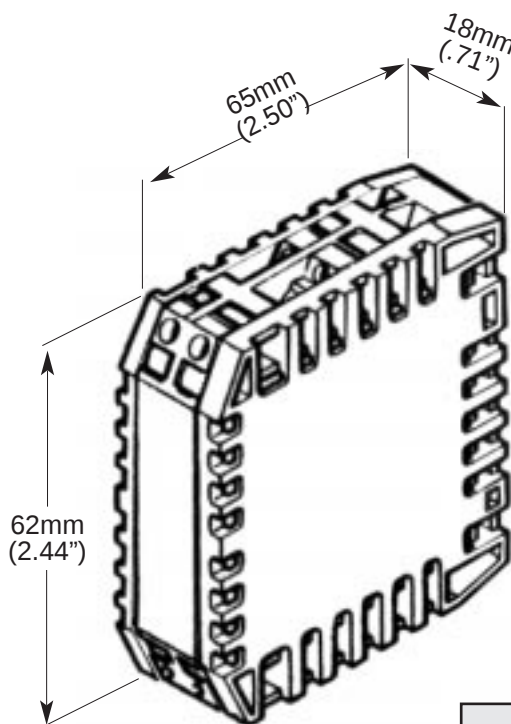
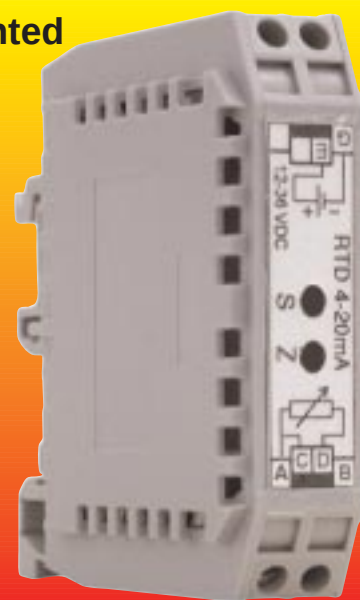
INPUT: RTD Pt-100 ($\alpha=0.00385$)

Linearity to Temperature:

$\pm 0.1\%$ or better

Excitation Current: 0.2mA

- DIN 46277 rail-mounted
- High Accuracy
- High Quality
- Lowest Cost
- Factory Calibrated
- Small Size



Standard Ranges		
$^{\circ}\text{C}$	$(^{\circ}\text{F})$	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 Data	
Model	Range
RT810D	(/)

Ex1: RT810D-(0/100) - RTD transmitter 0 -100°C