

# RT610D

Copper 10 Ohm RTD Temperature Transmitter w/4-20 mA Output



## Product Features

- 2-wire loop powered 4-20mA output
- RTD Copper 10 Ohms Input
- Analog design, potentiometer adjustable
- Factory Calibrated for fixed range
- DIN rail-mounted

## Description

The RT610D is one of the most compact 2-wire loop powered DIN rail-mounting transmitters available. It features linearized output to temperature for 10 ohm copper RTDs. The wide temperature range, low cost and availability make the RT610D an excellent choice for temperature signal transmission.

Precision 20-turn potentiometers allow fine adjustment for ZERO and SPAN. The RT610D is factory calibrated and designed for the highest performance. Standard DIN rail-mounted package allows for compact assembly and easy wiring in panels.

## Specifications

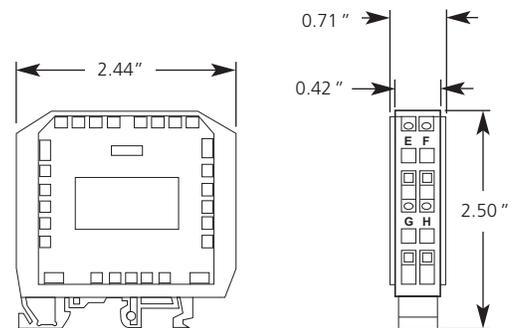
@Vnom = 24 VDC, T.ambient = 25°C, Span nom. = 100°C

<b>Input :</b>	Copper 10 ohms, RTD 3-wire
<b>Output :</b>	4-20mA loop powered, linear to temperature
<b>Power Supply :</b>	12-32VDC, polarity protected
<b>Supply Effect :</b>	0.02 %/V
<b>Zero Drift :</b>	±0.05 % FS/°C
<b>Span Drift :</b>	±0.05 % FS/°C
<b>Long Term Drift :</b>	±0.05 % FS/year
<b>Excitation Current RTD :</b>	0.2mA
<b>Span/Zero Adjustment :</b>	20 turn potentiometer, ±10 % for zero and span
<b>Maximum Loop Resistance :</b>	$R_{max.} = [V_{supply} - 9VDC] / 20mA$
<b>Warmup :</b>	30 seconds
<b>Ambient Operating Temperature :</b>	-40°C.....80°C (-40 °F....176°F)
<b>Storage Temperature :</b>	-40°C.....80°C (-40 °F....176°F)
<b>DIN Rail :</b>	DIN 46277
<b>Housing Material :</b>	Polyamide
<b>Housing Dimensions :</b>	2.44" W x 2.50" H x 0.71" D

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- Specifications subject to change without notice.



## Dimensions



Temperature Standard Ranges		Input
°C	(°F)	Cu 10 ohms (CA)
-50/+50	(-58/+122)	•
0/+50	(32/+122)	•
0/+100	(32/+212)	•
0/+200	(32/+392)	•
0/+250	(32/+482)	•

For non-standard temperature ranges, specify range

## Custom Builder

Model	Input Code	Range
RT610D	CA	( ___ / ___ )

Ex.: RT610D - CA - ( 0/100°C )