

### Product Features

- 2-wire loop powered 4-20mA output
- RTD Copper 10 Ohm Input
- Analog design, potentiometer adjustable
- Factory calibrated for fixed range
- DIN rail-mounted
- Isolation to 1000 VDC

### Description

The RT610Di is an isolated 10 ohm copper RTD transmitter. It completely eliminates ground loop and other associated problems. Combined with SMD technology, it provides full input/output isolation to 1000 VDC. The RT610Di transmitter features linearized output to temperature for 10 ohm copper RTD's. The wide temperature range, low cost and stocked availability make the RT610Di 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. Standard DIN rail mounted package allows for compact assembly and easy wiring in panels.

### Specifications

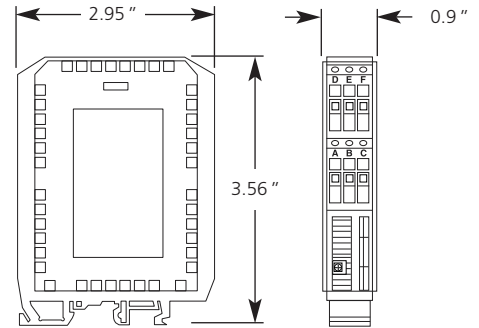
@Vnom = 24 VDC, T.ambient = 25°C, Span nom. = 100 °C

<b>Input :</b>	Copper 10 ohms, RTD 3-wire
<b>Output :</b>	4-20mA loop powered, linear to temperature
<b>Galvanic Isolation :</b>	1000 VDC (AC peak) isolation
<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>	Rmax. = [Vsupply – 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>	2.95" W x 3.56" H x 0.90" D

- 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)	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
RT610Di	CA	( ___ / ___ )

Ex.: RT610Di - CA - (0/100°C)