**DRF-RTD RTD Input** Signal Conditioner

> **All Models** £121



- 100  $\Omega$  Platinum (Pt) RTD Element, 0.00385 Curve
- 2- or 3-Wire Configuration
- 0.2% Accuracy
- **Cable Resistance** Compensation Up to 10  $\Omega$
- Upscale Break Protection
- ✓ Response Time <250 ms</p>
- **Galvanic Isolation Between** Input, Output, and Power

**DRF-RTD** signal conditioners accept 2- or 3-wire 100  $\Omega$  platinum RTDs as input and provide an isolated 0 to 10 Vdc or 4 to 20 mA output. Models are available with three different power options; 24 Vdc, 115 Vac, and 230 Vac.

DRF-RTD conditioners are ideally suited for industrial applications. All models mount on a standard 35 mm DIN rail and provide galvanic isolation between input, output, and power up to 3500 Veff (model specific). Module response time is 250 ms or less.

#### **Specifications**

**RTD:** 2- or 3-wire 100  $\Omega$  platinum

RTD,  $\alpha = 0.00385$ 

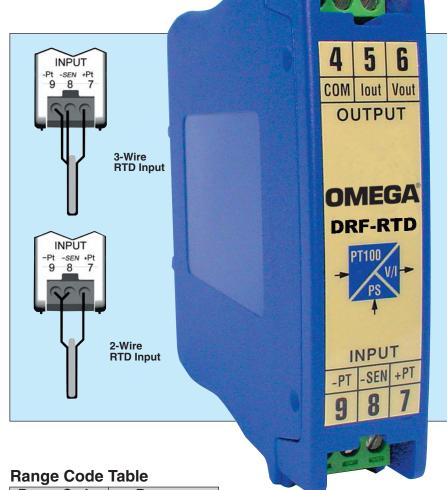
Accuracy: <0.2% full scale Linearity: <0.1% full scale Thermal Drift: 250 ppm/°C typical

Response Time: <250 ms

(90% of signal)

RTD Excitation: 1 Vdc Input Impedance: Measured with a Wheatstone bridge; bridge to positive through a 100  $\Omega$  resistance, bridge to negative through a 10 K $\Omega$ 

resistance



Range Code	Range
-25/75C	-25 to 75°C
-50/150C	-50 to 150°C
0/100C	0 to 100°C
0/200C	0 to 200°C
0/300C	0 to 300°C
0/450C	0 to 450°C
0/600C	0 to 600°C

<sup>\*</sup> Custom ranges can be obtained by adjusting on-board zero and span potentiometers. The minimum range is 0 to 50°C (32 to 122°F), maximum range is 0 to 600°C (32 to 1112°F).

DRF-RTD-24VDC-0/100C-0/10, £121, shown larger than actual size



### AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)			
Model No.	Price	Description	
DRF-RTD-(*)-(**)-(***)	£121	Signal conditioner for 100 $\Omega$ Pt RTD	
CS-3775	54	Reference Book: Control System Design Guide	

<sup>\*</sup> Specify power: "24VDC" for 24 Vdc power, "115VAC" for 115 Vac power or "230VAC" for 230 Vac power.

<sup>\*\*\*</sup> Specify range code from the Range Code Table.

\*\*\* Specify output: "4/20" for 4 to 20 mA output or "0/10" for 0 to 10 Vdc output.

Ordering Example: DRF-RTD-24VDC-0/100C-0/10, signal conditioner for an RTD with a 0 to 100°C input range, 0 to 10 Vdc output and 24 Vdc power, £121.

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