# **DEVAR Inc.**

### **MODEL RTT**

**Room Temperature Transmitter** 

**Loop Powered** 

4 to 20 mA Output

RTD Sensor and Transmitter Assembly

**Utility Box Mount** 

**RFI Immunity Rated Class 3-C** 



Typical Applications
Energy Management
Climate Control
Warehouses
Greenhouses
Clean Rooms
Museums
Food Storage

#### **GENERAL DESCRIPTION**

The Room Temperature Transmitter is designed to accurately sense ambient room temperature, and provide a loop powered 4 to 20 mA output signal that is linear with the measured temperature to within ±0.5°F +0.2%. The loop power requirement is within 8.0 to 35 VDC.

A precision RTD is sealed within the heat sink and connected to the transmitter terminals. The complete unit is housed within a plastic panel and comes with a gasket that may be mounted on a standard electrical outlet box.

This sealed unit is suitable for use in areas requiring periodic wash down.

#### **SPECIFICATIONS** - MODEL RTT

#### **PERFORMANCE**

Accuracy: ±0.5°F+ 0.2% of span includes sensor &

transmitter effects of linearity, hysteresis and repeatability relative to temperature signal.

Thermal Effect: Zero shift of ±0.02% / Span / °F

Span shift of ±0.02% / Span / °F

#### **POWER SUPPLY**

Working voltage: 8.0 to 35 VDC

Loop Considerations: Loop Resistance Load Effect

±0.002% / span / 300 Ohms.

Maximum Loop Resistance (Ohms) = (V supply -8.0V) / 0.020A

#### **RFI IMMUNITY**

Rated class 3-C

Standard 100 Ohms Pt RTD,

alpha = 0.00385

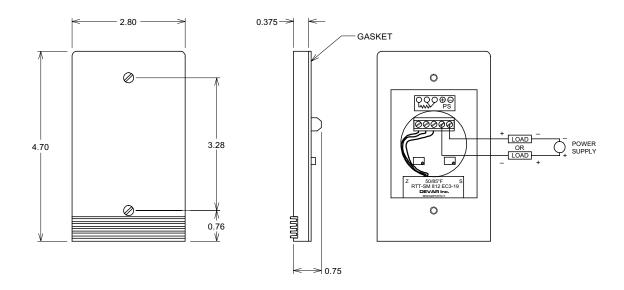
#### **OPEN RTD INDICATION**

Upscale

#### **STANDARD FIXED RANGES**

-0011	-40 / 120°F	(-40 / 50°C)
-0012	0 / 200°F	(-18 / 93°C)
-0017	-30 / 130°F	(-35 / 55°C)
-0018	40 / 140°F	(5 / 60°C)
-0019	50 / 85°F	(10 / 30°C)
-0022	0 / 100°F	(-18 / 38°C)
-0024	0 / 150°F	(-18 / 66°C)
-0026	30 / 100°F	(1 / 38°C)
-0029	-40 / 77°F	(-40 / 25°C)
-0031	32 / 122°F	( 0 / 50°C)
-0042	50 / 100°F	( 10 / 38°C)

#### **GENERAL DIMENSIONS & FIELD WIRING**



## **DEVAR Inc.**

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