



# TEMPERATURE TRANSMITTER MODEL 577066

The CSA approved Model 577066 temperature transmitter measures resistance changes as a function of temperature. Using a three wire 100  $\Omega$  platinum RTD sensor, the temperature is proportionally converted to a 4 to 20 mA output current. The transmitter is housed in an explosion-proof conduit enclosure. A fitting on the enclosure allows a variety of RTD probe and thermowell lengths to be attached for close-couple mounting.

## TECHNICAL SPECIFICATIONS

### INPUT RANGE:

-300 To +900 °F 100  $\Omega$  Platinum  
50 °F Span Minimum (30 °F Optional)

### OUTPUT RANGE:

4 To 20 mA<sub>dc</sub>

### ACCURACY:

$\pm 0.25\%$  Of Span With .1% RTD Probe

### SUPPLY VOLTAGE:

24 V<sub>dc</sub> Nominal (12 To 36 V<sub>dc</sub>), Reverse Polarity Protected

### COMPLIANCE VOLTAGE EFFECT:

.005% Of Span Over 12 To 36 V<sub>dc</sub> Range

### MAX LOAD RESISTANCE:

$R_{MAX} = (V_{SUPPLY} - 12V)/20 \text{ mA}$ , Typical:  
600  $\Omega$  @ 24 V<sub>dc</sub>.

### LINEARIZATION OF PLATINUM CURVE:

Typically Within .1% Of Span Input To Output

### OPERATING TEMPERATURE RANGE:

-20 TO +140 °F

### STABILITY:

Zero -.01%/°F; Span -.01%/°F

## CSA APPROVED RTD TEMPERATURE TRANSMITTER



### TRANSMITTER HOUSING:

Copper Free Aluminum (K-27) Painted Blue Polane

### ZERO AND SPAN ADJUSTMENT:

$\pm 20\%$  Of Span Typical

### PROCESS CONNECTION:

$\frac{1}{2}$ " NPT Standard

## FEATURES

- CSA Approvals:  
Intrinsically Safe for Hazardous Locations: CL I GR A,B,C,D  
CL II GR E,F,G CL III
- Two Wire Operation
- Excellent Repeatability
- Long Term Stability

