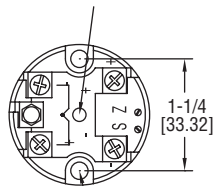


# TEMPERATURE TRANSMITTER

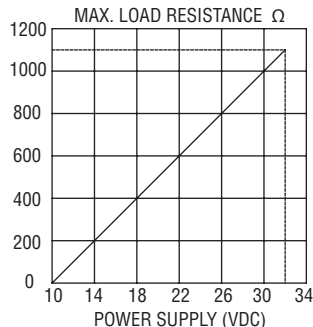
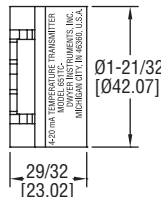
RTD or Thermocouple Input, Zero and Span Adjust, Linearized 4 to 20 mA Signal



0.16 [4.1] DIA. CENTER HOLE  
FOR SENSOR WIRE ENTRY



7/32 DIA.  
[5.53] MOUNTING HOLES



The **SERIES 651** Temperature Transmitters are designed for use with 2 or 3 wire Pt100 RTDs or ungrounded Type K thermocouples. Thermocouple models 651TC are cold junction compensated, automatic 32 to 160°F (0 to 70°C) with upscale burnout.

## FEATURES/BENEFITS

- Various preset ranges available
- Pt100 or K type thermocouple models
- Standard temperature sensor head enclosure mounting

## APPLICATIONS

- Process applications where a 4 to 20 mA signal is required

## SPECIFICATIONS

**Input:** 2 or 3-wire Pt100 RTD (models 651A), or ungrounded Type K thermocouple (models 651TC).  
**Output:** 4 to 20 mA DC, linearized.  
**Transmitter Type:** 2-wire.  
**Output Impedance:** 700 Ω @ 24 VDC.  
**Power Requirements:** 10 to 32 VDC, reverse connection protected.  
**Accuracy:** ±0.2°C plus 0.2% reading (models 651A), ±0.1% FS plus cold junction errors (models 651TC).

**Temperature Drift:** ZERO drift typical 0.02%/°C (0.09°F); SPAN typical 0.005%/°C (0.0036°F).

**Temperature Limits:** Ambient: 32 to 122°F (0 to 50°C).

**Maximum Storage Temperature:** 160°F (70°C).

**Response Time:** 10 to 90% in 200 ms (models 651A), 70% in 2 ms (models 651TC).

**Agency Approvals:** CE.

## MODEL CHART

Model	Input Type	Range, °F (°C)	Model	Input Type	Range, °F (°C)
<b>651A-10</b>	Pt100 RTD	32 to 212 (0 to 100)	<b>651TC-01</b>	Type K thermocouple	32 to 212 (0 to 100)
<b>651A-20</b>	Pt100 RTD	32 to 392 (0 to 200)	<b>651TC-02</b>	Type K thermocouple	32 to 392 (0 to 200)
<b>651A-40</b>	Pt100 RTD	32 to 752 (0 to 400)	<b>651TC-04</b>	Type K thermocouple	32 to 752 (0 to 400)
			<b>651TC-06</b>	Type K thermocouple	32 to 1112 (0 to 600)