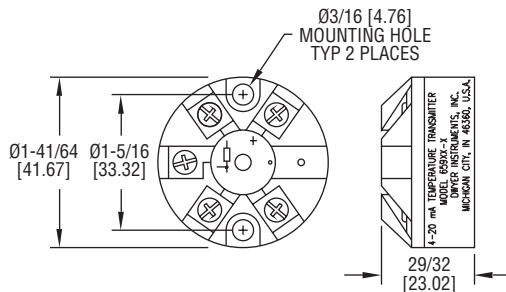# Dwyer

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PUSH-BUTTON TEMPERATURE TRANSMITTER
Programmable, RTD, Thermistor or Thermocouple Input, In-Head Mounting

The **SERIES 659** Push-Button Temperature Transmitters accept thermocouple (J, K, T), RTD (Pt100Ω) or thermistor input and provide a linearized 4 to 20 mA output. The transmitter is quickly ranged and calibrated by using a single on-board switch.

FEATURES/BENEFITS
• Push button calibration adjustment
• Reverse polarity protection
• Standard temperature sensor head enclosure mounting
• Sensor fault LED

APPLICATIONS
• Process applications where a 4 to 20 mA signal is required

MODEL CHART

Model	Input
659TC-1	Thermocouple (Type J, K, T)
659RTD-1	3-wire (RTD Pt100)
659TH-1	Thermistor (2252Ω)

SPECIFICATIONS

Input Range: Type J T/C: -328 to 2192°F (-200 to 1200°C); Type K T/C: -328 to 2498°F (-200 to 1370°C); Type T T/C: -328 to 752°F (-200 to 400°C); Pt100 Ω RTD: -328 to 1562°F (-200 to 850°C); Thermistor: -13 to 257°F.
Accuracy: T/C models: ±0.04% FS., ±0.04% of reading or ±0.5°C whichever is greater; RTD: ±0.2°C ±0.1% of rdg; Thermistor: ±0.25°F (±0.1°C).
Output: Linearized 4 to 20 mA, 2-wire loop powered.
Sample Rate: 500 ms.
Loop Resistance: T/C: 700 Ω @ 24 VDC; RTD: 800 Ω @ 24 VDC; Thermistor: 24 VDC.
Output Thermal Drift: Zero: 0.2µA/°C; Span: 0.5µA/°C.
Temperature Limits: Ambient: -4 to 158°F (-20 to 70°C), 80% RH max.
Ambient Storage Temperature: -40 to 158°F (-40 to 70°C), 95% RH max.
Burnout: Upscale 22 mA.
Weight: 0.92 oz (26 g).
Agency Approvals: CE.