



# TS-R Transmitter Series

## Room Temperature Transmitters



### Overview

The TS-R Transmitter Series are stainless steel wall plate temperature transmitters. They are a low profile, single gang transmitter that incorporate a precision platinum RTD and provide a high accuracy signal with excellent long-term stability, low hysteresis, and fast response for measurement of room temperatures. The TS-R Transmitter Series can be mounted directly to a single gang electrical box or directly to a wall. Insulating foam is adhered to the back of the enclosure to provide a thermal barrier from internal wall temperatures.

### Applications

- Used for measuring temperature of rooms

### Features & Benefits

- Economical
- Proven long term stability and performance
- Voltage and current output signals
- Low hysteresis and fast response
- Virtually immune to power supply noise and input voltage fluctuations

### Accessories

#### Calibration Certificate

TS-NIST	Calibration Certificate
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Note: Calibration certificates must be purchased at the time of purchasing the relative sensors.

# Model Selection

	TS-	R	C04	MP	X	R1
Mounting Style		R = Room				
Control Signal Output			C04 = Current, 4-20mA V05 = Voltage, 0-5VDC V10 = Voltage, 0-10VDC			
Enclosure				MP = Metal plate		
Mounting Screws					X = Regular mounting screws S = Tamperproof mounting screws	
Temperature Range						R1 = 0° - 35°C (32° - 95°F) R2 = 0° - 50°C (32° - 122°F) R3 = 0° - 100°C (32° - 212°F) R4 = -50° - 50°C (-58° - 122°F)

# Product Specifications

## Environmental

Operating temperature	0°C to 70°C; 32°F to 158°F
Storage temperature	0°C to 70°C; 32°F to 158°F
Ambient humidity	0 to 95% Non-condensing

## Transmitter/Sensor/Probe

Transmitter Accuracy	±0.1% of span, including linearity
Temperature Sensor Type <sup>1</sup>	1000Ω Platinum RTD
Sensor Accuracy	±0.3°C (±0.54°F) @ 0°C (32°F)
Output Signal	4-20mA current loop, 0-5 Vdc, or 0-10 Vdc

## Enclosure

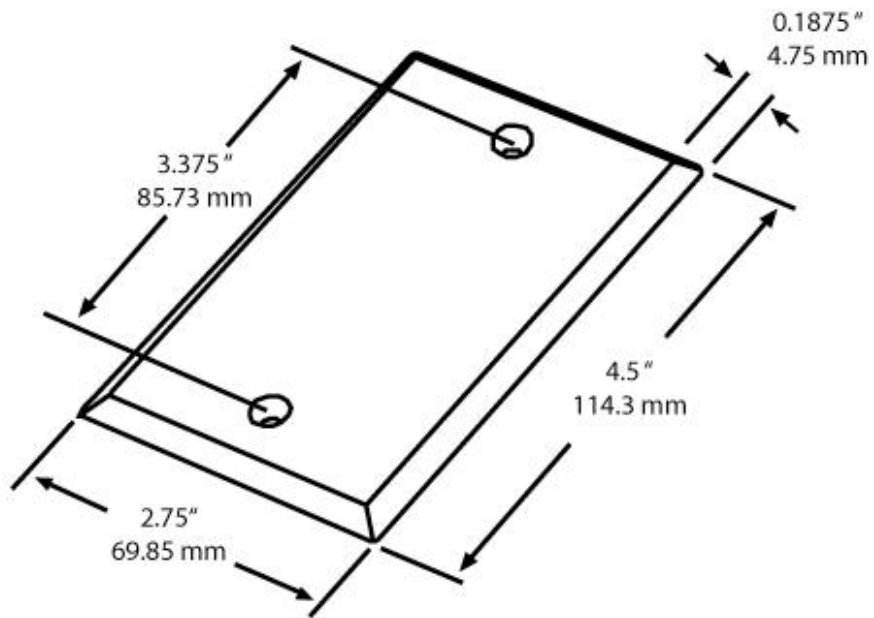
Material	304 Stainless Steel (IP30)
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## Electrical

4-20 mA Loop Power Supply	15-35 Vdc or 22-32 Vac
Input Voltage Effect	Negligible over specified operating range
Protection Circuitry	Reverse voltage protected and output limited
Maximum Loop Load	>600Ω
Minimum Loop Current	2 mA nominal (occurs with shorted sensor)
Maximum Loop Current	22.5 mA nominal (occurs with open sensor)
0-5 Vdc Power Supply	10-35 Vdc or 10-32 Vac
0-10 Vdc Power Supply	15-35 Vdc or 15-32 Vac
Maximum Output (Voltage)	Limited to <5.5 Vdc for 0-5 Vdc, <10.5 for 0-10 Vdc
Maximum Current (Voltage)	5 mA nominal

1. Temperature sensor type stated is standard. Other temperature sensor types are available.

# Dimensions



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