D09: Wall Mount Temperature Sensor with Transmitter

Specifications

The D09 wall mounted room temperature sensor incorporates a plastic enclosure to reduce the influence of drafts and provides extra protection. The "on board" transmitter can provide additional enhancements such as improved accuracy, HART communication and ease of signal transfer to support devices.

Features and Benefits:

- Application: Room air temperature
- Accuracy:
  - Standard 0.10% of resistance at 0.0°C (32°F)
  - "Matched" transmitter provides improved accuracy
- Element / Lead Wire Configuration: Single 3 wire
- Protective plastic enclosure reduces draft effects and provides protection
- Various transmitter options available
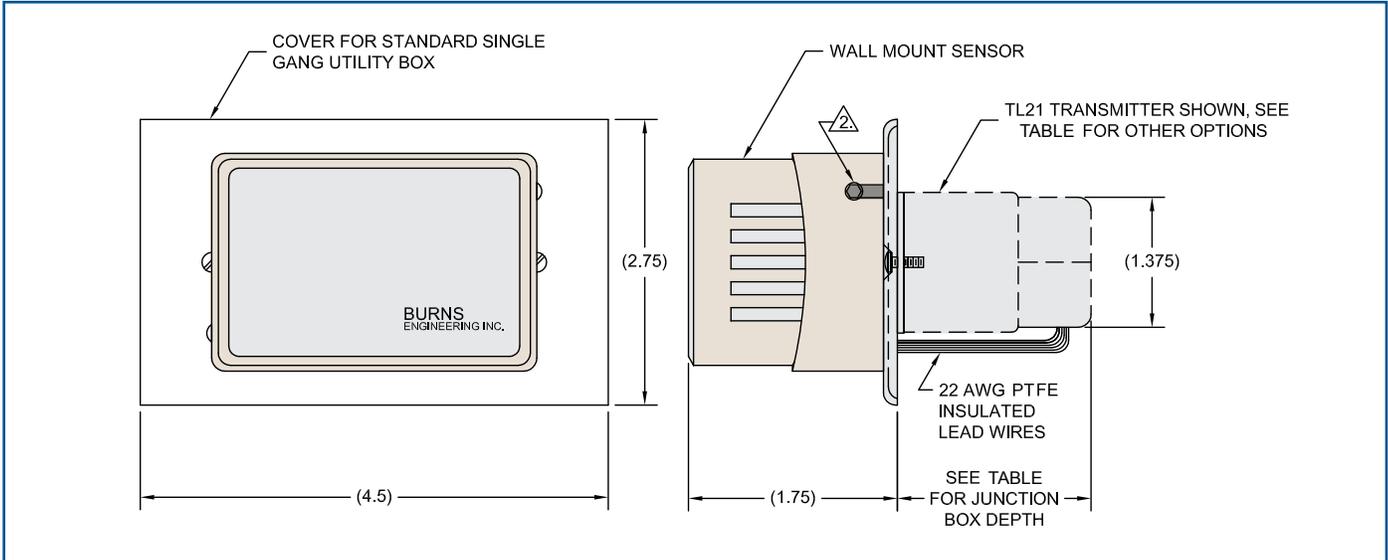- Ideal for indoor applications

Specifications

- Element Configuration: Single, 100 ohms at 0.0°C (32°F), 0.00385 ohm/ohm/°C nominal alpha
- Temperature Range: -40°C to 85°C (-50°F to 185°F)
- Insulation Resistance: 100 MΩ, 100 VDC at room temperature

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Ordering Information

COVER FOR STANDARD SINGLE GANG UTILITY BOX

WALL MOUNT SENSOR

TL21 TRANSMITTER SHOWN, SEE TABLE FOR OTHER OPTIONS

(2.75)

(1.375)

BURNS
ENGINEERING INC.

22 AWG PTFE INSULATED LEAD WIRES

(4.5)

(1.75)

SEE TABLE FOR JUNCTION BOX DEPTH

D09- Wall Plate Air Temperature Sensor with Transmitter

RTD (Accuracy)

| 10 | Standard RTD 100 OHMS ± 0.1 Ω at 0°C |

Element/Lead Wire Configuration

| A | Three Wire Single Element |

Transmitter

		Minimum Span	Required Junction Box Depth
/T51	Digital Transmitter	25°C	1.5"
/T55	Digital Transmitter, Matching Capabilities, Hart Communication	10°C	1.5"
/TL21	Analog Transmitter	NA	1.9"

Transmitter Calibration Type

M	Transmitter and Sensor Matched for Improved Performance (T55 and TL21 Only)
	Not Matched (Leave Blank)

Transmitter Temperature Range

| [Tmin TO Tmax] | Minimum Temp Reading (4 mA Output) - Maximum Temp Reading (20 mA Output) |

Transmitter Temperature Units

C	Degrees Celsius
F	Degrees Fahrenheit

D09

Basic Order Codes

(Leave Blank if not Required)

Common Options
(pages 25-26)

Example Part # D09-10A/T55M [-50 to 85] F

WHITE

RED

RED

100 OHMS ± 0.1 Ω AT 0°C,
PLATINUM ELEMENT,
0.003850 ± 0.000010 Ω/Ω/°C,
INITIAL INSULATION RESISTANCE
500 MΩ, 100 VDC AT 20°C