D08: Wall Plate Temperature Sensor with Transmitter Option
Specifications

The D08 provides room temperature measurement with the option for a transmitter. The sensor extends 0.5" into the room for improved sensitivity and is protected from accidental damage by a rugged protection loop. Incorporated into a stainless steel wall plate, this design mounts to a standard electrical junction box for easy installation.

Features and Benefits:

- Application: Room air temperature
- Accuracy:
  - Standard 0.10% of resistance at 0.0°C (32°F)
  - Matched transmitter option for improved accuracy
- Element / Lead Wire Configuration: Single 3 or 4 wire
- Faster response time than D07
- Sensor surface: Stainless steel
- Low-profile wall mounted design with protection loop
- Insulating gasket included for thermal isolation from the wall
- Available with various transmitter options
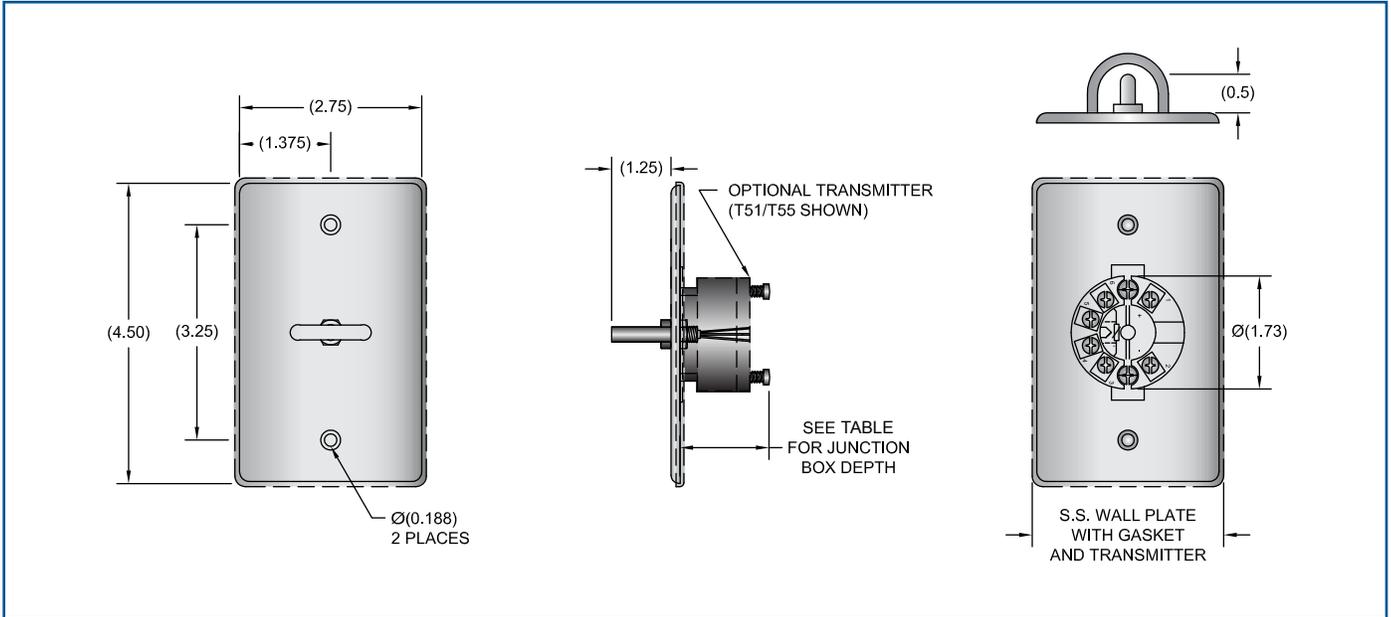- Mounts in a standard junction box (See Ordering Table for required junction box depth)

Specifications

- Element Configuration: Single, 100 ohms at 0.0°C (32°F) , 0.00385 ohm/ohm/°C nominal alpha
- Temperature Range: -46°C to 149°C (-50°F to 300°F); with transmitter: -40°C to 85°C (-50°F to 185°F)
- Insulation Resistance:100 MΩ, 100 VDC at room temperature

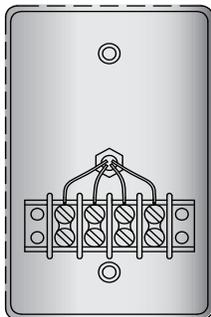Note: Insulation inside the junction box is recommended for best measurement.

D08: Wall Plate Temperature Sensor
with Transmitter Option
Ordering Information

(2.75)

(1.375)

(1.25)

OPTIONAL TRANSMITTER
(T51/T55 SHOWN)

(0.5)

(4.50) (3.25)

SEE TABLE
FOR JUNCTION
BOX DEPTH

Ø(1.73)

Ø(0.188)
2 PLACES

S.S. WALL PLATE
WITH GASKET
AND TRANSMITTER

D08- Wall Plate Air Temperature Sensor with Optional Transmitter

RTD (Accuracy)

10	Standard RTD 100 OHMS ± 0.1 Ω at 0ºC

Element/Lead Wire Configuration

A	Three Wire Single Element
B	Four Wire Single Element

Transmitter

		Minimum Span	Required Junction Box Depth
/T51	Digital Transmitter	25°C (45°F)	1.4"
/T55	Digital Transmitter, Matching Capabilities, Hart Communication	10°C (18°F)	1.4"
/TL21	Analog Transmitter	NA	3.4"
	Terminal Block Per Detail A (Leave Blank)	NA	0.5"

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

(Leave Blank if not Required)

D08

Basic Order Codes

Common Options
(pages 25-26)

Example Part # D08-10A/T55M [-50 to 80] F

Detail A: Terminal Block Configuration

WHITE
WHITE
RED
RED

100 OHMS ± 0.1 Ω AT 0°C,
PLATINUM ELEMENT,
0.003850 ± 0.000010 Ω/Ω/°C

WHITE
RED
RED

100 OHMS ± 0.1 Ω AT 0°C,
PLATINUM ELEMENT,
0.003850 ± 0.000010 Ω/Ω/°C