

S-THA-M002 Temp/RH Smart Sensor



This Smart Sensor measures temperature over a range of -40° to 75°C (-40° to 167°F) and 0 to 100% RH between 0° to 50°C (32° to 122°F). Equipped with a stainless-steel housing, this sensor requires protection from rain or direct splashing; a radiation shield is strongly recommended for use in sunlight. This model has a 2m cable.

Measurement range:

-40° to 75°C (-40° to 167°F)

0 to 100% RH between 0° to 50°C (32° to 122°F)

Operating Range: RH sensor will provide readings -40° to 75°C (-40° to 167°F), but accuracy specification only applies within the specified measurement range

Accuracy: $\pm 0.7^{\circ}\text{C}$ @ 25°C ($\pm 1.3^{\circ}\text{F}$ @ 77°F); $\pm 3\%$ RH over the range of 0° to 50°C; $\pm 4\%$ in condensing environments

Resolution: 0.4°C @ 25°C (0.7°F at 77°F); 0.5% RH @ 25°C (77°F)



Drift:

Temp: <0.1°C (0.2°F) per year;

RH: ±1% RH per year, factory RH recalibration available

Response time:

Temp: 8 minutes typical;

RH: 5 minutes typical (both in 2 meter/second airflow)

Housing: Stainless steel

Dimensions: 1.6 cm x 8.6 cm (5/8" x 3 1/2")

Approximate Weight: 60 g (2 oz); weight varies with cable length

Cable Length: 2 meter (6.5 foot)

Note: Sensor requires protection from rain or direct splashing; Radiation shield (RS3) strongly recommended for use in sunlight; sensors can be used in intermittent condensing environments up to +30°C and non-condensing above +30°C.

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