

## Q-Series Room Relative Humidity Sensor— 2-Wire Installation



Figure 1. Q-Series Room Relative Humidity Sensor.

### Description

This Q-Series Room Relative Humidity Sensor monitors and transmits changes in humidity to the building control system. This unit is especially suited for applications where precise, stable humidity sensing is required. It has a 4 to 20 mA output signal.

A single, 2-wire model is available: a humidity only version with  $\pm 5\%$  accuracy.

This room humidity sensor allows the sensing element to be removed and replaced if needed. Siemens sensors with replaceable elements are ideal for applications where measurement accuracy is critical and sensor replacement is not an option, or is too expensive.



Figure 2. Q-Series Relative Humidity Removable Sensing Element (Replacement Part AQF3050).

### Ordering Information

Part Number	Description
QFA3001.WU-2-WIRE	Room Humidity Sensor, 5% accuracy, 4-20 mA
<b>Accessory Part Numbers</b>	
544-782B	Single Adapter Base Kit (White)
544-783B	Double Adapter Base Kit (White)
544-785B	Extender Ring Kit (White)
544-784	Non-Conduit Rough-In Kit
AQF3050	Replaceable Sensing Element

## Specifications – Humidity Output

Measurement range	0 to 100% rh
Accuracy of 5% rated sensors at room temperature (73°F, 20°C)	±5% rh between 0% and 95%
Temperature effect	Less than 0.1% per degree C
Sensing element	Capacitive humidity sensing element
Output signal	4 to 20 mA, 0 to 100% linear, proportional
Polarity protection	Yes

## General Specifications

Operating conditions	
Relative humidity	0 to 100%
Temperature	32°F to 122°F (0°C to 50°C)
Installation	18 AWG cable length shared in conduit with other sensor wiring 750 ft (229 m) maximum
Connections	Screw terminals
Housing Dimensions	3-11/32" H x 2-1/2" W x 1-1/2" D (85 mm x 63 mm x 38 mm)
Voltage requirement	13.5 to 35 Vdc
Material Type	Polycarbonate plastic
Color	White

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