



HS-RXXXMP Series

Wall Plate Humidity Sensors



Overview

The HS-RXXXMP Series are stainless steel wall plate relative humidity transmitters. They use a field-proven capacitive type humidity sensor and microprocessor temperature compensation for reliable, accurate measurement of indoor humidity. The wall plate sensor is perfect for locations requiring periodic wipe down as it features a 304 stainless steel plate with a neoprene gasket. The sensor is protected by a 100 micron sintered stainless steel filter. The plate sensor is available with either 4-20 mA or 0-5 Vdc or 0-10 Vdc output signal types and the transmitter is located on the back of the plate for ease of installation.

Applications

- Used for measuring relative humidity of rooms

Features & Benefits

- Economical
- Proven long term stability and performance
- Voltage and current output signals available
- Protected sensor

Accessories

HS-FCAL	Factory Calibration Certificate
HS-NIST	NIST Calibration Certificate

Note: Calibration certificates must be purchased at the time of purchasing the relative sensors.

Model Selection

	HS-	R	3	C04	MP	T	X
Mounting Style	R = Room						
Humidity Sensing Accuracy	3 = 3% 5 = 5%						
Control Signal Output	C04 = Current, 4-20mA V05 = Voltage, 0-5VDC V10 = Voltage, 0-10VDC						
Enclosure	MP = Metal plate						
Temperature Sensor Option	T = Temperature sensor (10kΩ, Type II thermistor)						
Mounting Screws	X = Regular mounting screws S = Tamperproof mounting screws						

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
Relative Humidity	0 to 95% Non-condensing

Transmitter/Sensor

Sensor Type	Thermoset Polymer Based Capacitive
Accuracy at 25°C	±3 or 5% RH, (5% to 95% RH)
Measurement Range	0 to 100% RH
Hysteresis	±3% RH Maximum
Response Time	15 Seconds Typical
Stability	±1.2% RH Typical
Sensor Protection	100 µm (micron) Sintered Filter

Enclosure

Material	304 Stainless Steel (IP50)
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Optional Temperature Sensor

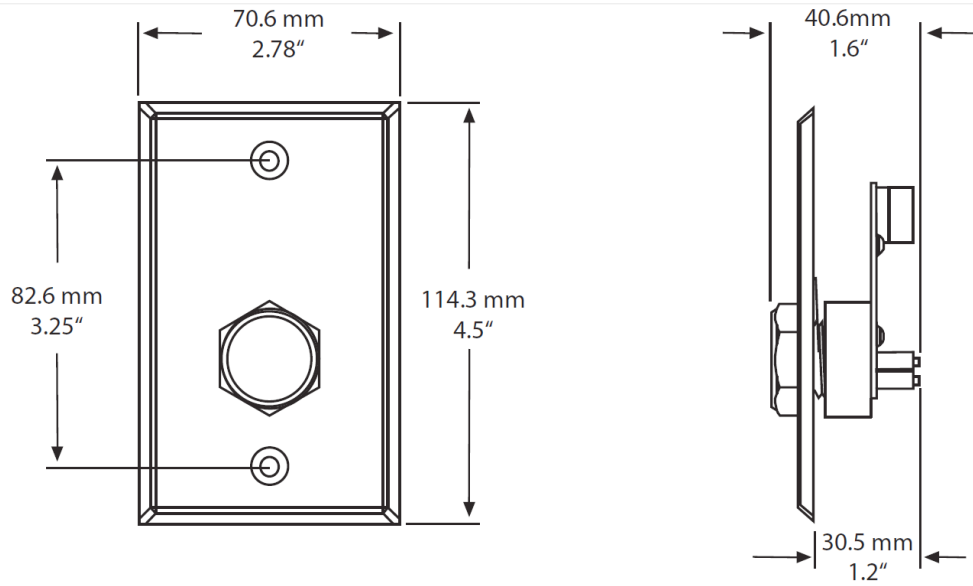
Type ¹	10kΩ NTC thermistor, Type 2
Accuracy	±0.2°C; ±0.36°F

Electrical

Dissipation Factor	2.2mW/K (Thermistor)
Max Power @ 25°C (77°F)	75mW (Thermistor)
Thermal Time Constant	Less than 10s (Thermistor)
Power Supply	18 to 35 Vdc, 20 to 26 Vac
Consumption	22 mA Maximum
Maximum Output (Voltage)	Limited to <5.5 Vdc for 0-5 Vdc, <10.5 for 0-10 vdc
Input Voltage Effect	Negligible over specified operating range
Output Signal	4-20 mA Current Loop, 0-5 or 0-10 Vdc
Output Drive at 24 DC	550 Ω Max for Current Output 10 kΩ Min for Voltage Output
Internal Adjustments	Clearly marked ZERO and SPAN Pots
Wiring Connections	Screw Terminal Block (14 to 22 AWG)

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

Dimensions



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