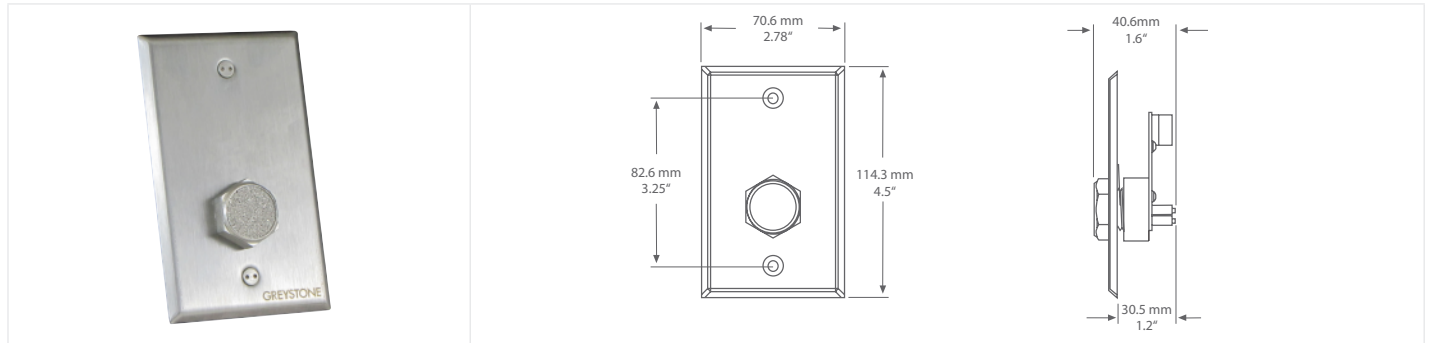




S/S SURFACE HUMIDITY TRANSMITTER



RH100S SERIES

PRODUCT DESCRIPTION

The RH100S Stainless Steel Wall Plate Relative Humidity transmitter uses 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.

This product is available as a humidity sensor only or with various direct temperature sensors.

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.

TYPICAL INSTALLATION

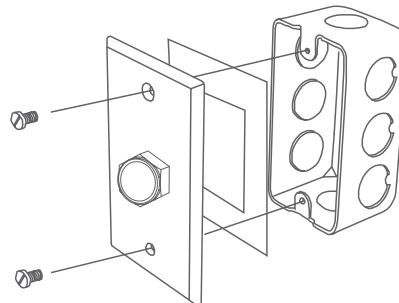
For complete installation and wiring details, please refer to the product installation instructions.

The SS plate type sensor installs directly on a standard electrical box and should be mounted five feet from the floor of the area to be controlled. Do not mount the sensor near doors, opening windows, supply air diffusers or other known air disturbances. Avoid areas where the sensor is exposed to vibrations or rapid temperature changes.

A terminal is provided for connection to the Building Automation System.

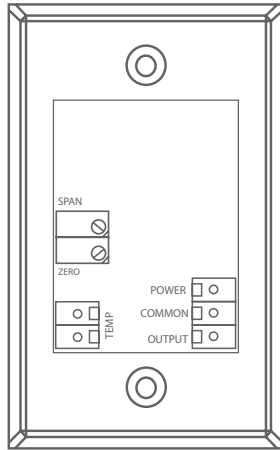
SPECIFICATIONS

SENSOR TYPE	Thermoset polymer based capacitive
SENSOR PROTECTION	100 micron sintered filter
OPTIONAL TEMPERATURE SENSOR	Various RTD's and thermistors available as 2-wire resistance outputs
ACCURACY	±2, 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 %RH typical at 50 %RH in 5 years
OPERATING TEMPERATURE	0 to 50°C (32 to 122°F)
OPERATING HUMIDITY	0 to 95 %RH non-condensing
POWER SUPPLY	18 to 35 Vdc, 20 to 26 Vac
CONSUMPTION	22 mA maximum
INPUT VOLTAGE EFFECT	Negligible over specified operating range
PROTECTION CIRCUITRY	Reverse voltage protected and output limited
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, 0-10 Vdc, or 0-1 Vdc (jumper selectable)
OUTPUT DRIVE @ 24 VDC	Current: 550Ω max Voltage: 10,000Ω min
INTERNAL ADJUSTMENTS	Clearly marked ZERO and SPAN pots
ENCLOSURE	Stainless steel, IP50 (NEMA 1)
DIMENSIONS	70mm W x 114mm H x 41mm D (2.75" x 4.5" x 1.6")
TERMINATION	Screw terminal block (14 to 22 AWG)
COUNTRY OF ORIGIN	Canada





WIRING INFORMATION



TERMINAL	FUNCTION
PWR	24 Vac/dc from controller or power supply
COM	GND or COMMON of controller
OUT	Analog Output
TEMP	Resistance Output
TEMP	Resistance Output

ORDERING

PRODUCT	RH100S	S/S Surface Humidity Transmitter
ACCURACY	02 03 05	2% 3% 5%
OUTPUT	I20 V05 V10	4-20 mA output 0-5 Vdc output 0-10 Vdc output
OPTIONAL TEMPERATURE SENSOR	L C F E D J K M B G	100Ω Platinum, IEC 751, 385 Alpha, thin film 1000Ω Platinum, IEC 751, 385 Alpha, thin film 1801Ω NTC Thermistor, ±0.2°C 3,000Ω NTC Thermistor, ±0.2°C 10,000Ω Type 3, NTC Thermistor, ±0.2°C 10,000Ω Type 2, NTC Thermistor, ±0.2°C 20,000Ω NTC Thermistor, ±0.2°C 1000Ω Nickel, Class B, DIN 43760 10,000Ω Type 3, NTC Thermistor, ±0.2°C c/w 11K shunt resistor 2.252KΩ Thermistor, 0.2°C
OPTIONS	TP	Tamperproof screws

NOTE: Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

PART NUMBER

RH100S