DUCT HUMIDITY TRANSMITTER
RH200 Series

The RH200 series uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and state-of-the-art digital linearization and temperature compensated circuitry to monitor humidity levels. The sensor is encapsulated in a 228.60 mm (9") long by 12.7 mm (0.5") diameter 304 S/S probe. An 60 micron HDPE filter protects the sensor for contaminants. A variety of enclosures are available. Additional options such as integrated temperature sensor and LCD display are available.

SPECIFICATION:

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Sensor Type	Thermoset Polymer based Capactive
Range	0 to 100% RH
Accuracy	±2, 3, or 5% RH (5 to 95% RH)
Response	15 Seconds typical
Temp Dependence	±0.05% RH/ ˚C
Hysteresis	±1.5% RH maximum
Repeatability	±0.5% RH typical
Linearity	±0.5% RH typical
Operating Range	-40 to 85˚C (-40 to 185˚F)
Power Supply	18 to 30 Vdc, 15 to 26 Vac
Consumption	22 mA maximum
Protection Circuitry	Reverse voltage protected and output limited
Output Signal	4-20 mA current loop, 0-5 or 0-10 Vdc (jumper-selectable)
Output Drive @ 24 Vdc	550 ohms max for current output 10K ohms min for voltage output
Internal Adjustments	Clearly marked ZERO and SPAN pots
Optional Temp	RTD's or Thermistors - See ordering chart
RH200 Probe	230 mm (9") probe length x 12.7 mm (1/2") diameter stainless steel with porous filter
Enclosure	Standard:(A) - ABS - UL94-5VB - IP61 (NEMA 2) Round (E) - ABS - UL94-5VB - IP65 (NEMA4X) Metal (M) - Gal. Steel - IP50 (NEMA1) Weatherproof (W) - Cast Alum. IP64 (NEMA3X) *In order to maintain the published NEMA/IP ratings, properly rated conduit or cable gland adapters must be used.
Termination	Screw terminal block (14 20 22 AWG)
Optional LCD	3 digit for 00.0 to 99.9% RH, 24 x 11mm (0.95"w x 0.45"h) (A Enclosure only)

TYPICAL INSTALLATION:

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

The duct type probes are installed through a hole in the side of the duct to monitor a single point humidity within the duct. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

Each enclosure style provides mounting tabs on the outside of the enclosure for ease of installation .

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

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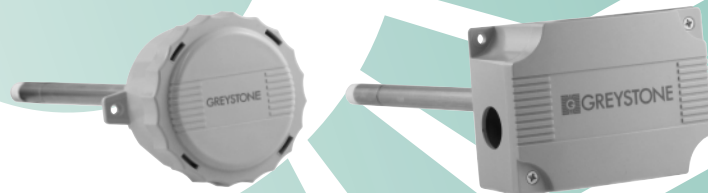
PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
RH200	Duct Humidity Transmitter

CODE	Enclosure
A	ABS Enclosure, Standard
E	Round ABS w/ gasketed cover
M	Metal utility box
W	Weatherproof Aluminum

CODE	Accuracy
02	2%
03	3%
05	5%

CODE	Optional Temperature Sensor
L	100 Ω Plat. IEC 751, 385 Alpha, thin film
C	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
F	1801 Ω, NTC Thermistor, ±0.2 C
E	3000 Ω, NTC Thermistor, ±0.2 C
D	10,000 Ω, Type 3, NTC Thermistor, ±0.2 C
J	10,000 Ω, Type 2, NTC Thermistor, ±0.2 C
K	20,000 Ω, NTC Thermistor, ±0.2 C
M	1000 Ω Nickel, Class B, DIN 43760
B	10K Ω, Type 3, NTC Therm, ±0.2 C c/w 11K shunt resistor
G	2,252K Ω, NTC Thermistor, ±0.2 C

CODE	Options
AC	LCD Display

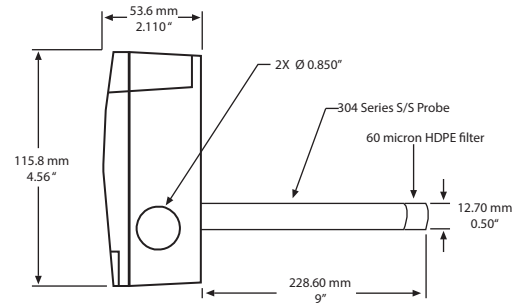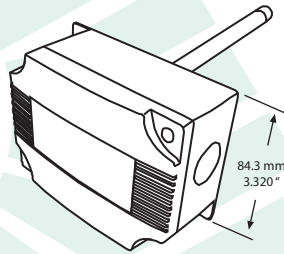Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.
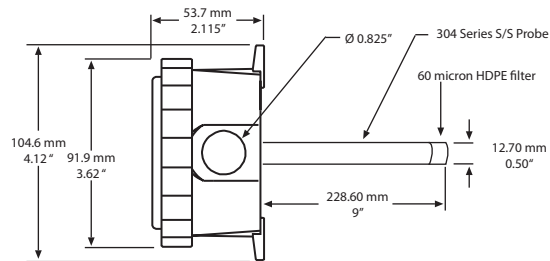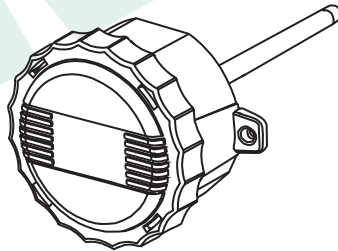
RoHS COMPLIANT

5 Warranty

MADE IN CANADA

ISO9001

CE
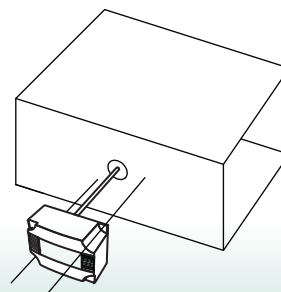
DIMENSIONS

ABS Enclosure (A)

84.3 mm
3.320"

53.6 mm
2.110"

115.8 mm
4.56"

2X Ø 0.850"

304 Series S/S Probe

60 micron HDPE filter

12.70 mm
0.50"

228.60 mm
9"

Round ABS Enclosure (E)

53.7 mm
2.115"

Ø 0.825"

304 Series S/S Probe

60 micron HDPE filter

104.6 mm
4.12" 91.9 mm
3.62"

12.70 mm
0.50"

228.60 mm
9"

Metal Enclosure (M)

53.3 mm
2.10"

51.8 mm
2.04

304 Series S/S Probe

60 micron HDPE filter

107.7 mm
4.24"

12.70 mm
0.50"

228.60 mm
9"

Ø 0.875"
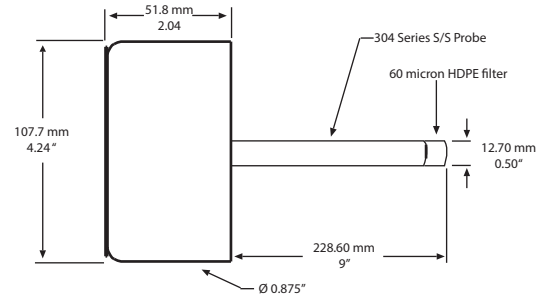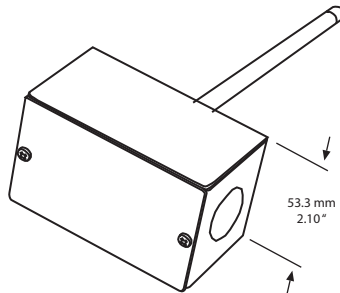
Weatherproof Enclosure (W)
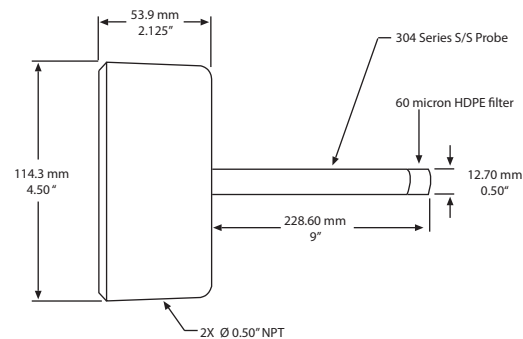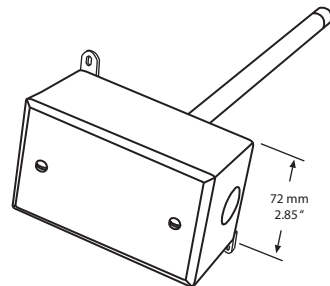
72 mm
2.85"

53.9 mm
2.125"

304 Series S/S Probe

60 micron HDPE filter

114.3 mm
4.50"

12.70 mm
0.50"

228.60 mm
9"

2X Ø 0.50" NPT

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GREYSTONE
ENERGY SYSTEMS INC

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RoHS COMPLIANT

5 Warranty

MADE IN CANADA

Certified System ISO9001

CE

Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems. We have conscientiously established a worldwide reputation as an industry leader by maintaining leading-edge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.

GREYSTONE HAS AN **ISO 9001** REGISTERED QUALITY SYSTEM