

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:

| 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 | |
| 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 (NEMA2) |
| | 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. |
| | 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.



PRODUCT SELECTION INFORMATION:

| MODEL | Product De | escription |
|-------|---------------------------|-------------------------|
| RH200 | Duct Humidity Transmitter | |
| | CODE | Enclosure |
| | A | ABS Enclosure, Standard |

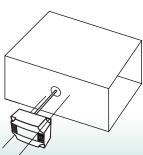
| CODE | Accuracy |
|--|----------|
| ABS Enclosure, Standard Round ABS w/ gasketed cover Metal utility box Weatherproof Aluminum | |

| , | CODE | Accuracy |
|---|----------|----------|
| ı | 02 | 2% |
| ı | 03 05 | 3% 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 |
| М | 1000 Ω Nickel, Class B, DIN 43760 |
| В | $10K\Omega$, Type 3, NTCTherm, ± 0.2 C c/w $11K$ shunt resistor |
| G | 2,252K Ω , NTC Thermistor, ±0.2 C |
| | |

| CODE | Options |
|--------|-------------|
| AC | LCD Display |
| \Box | |

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



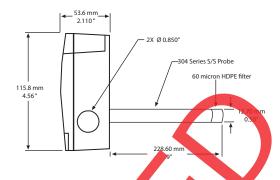




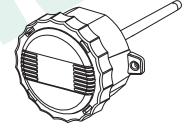


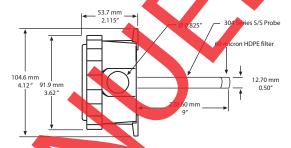




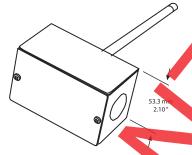


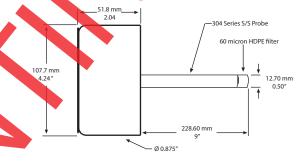
Round ABS Enclosure (E)



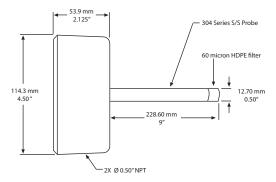


Metal Enclosure (M)





Weatherproof Enclosure (W)



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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 leadingedge 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.

04/13

PS-RH200-01-01

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