

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:

* *	Thermoset Polymer based Capactive
Range	
	.±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.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

	мог	DEL	Product Description
1	RH2	200	Duct Humidity Transmitter

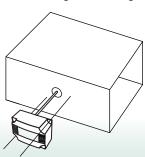
CODE	Enclosure
A	ABS Enclosure, Standard
E	Round ABS w/ gasketed cover
M	Metal utility box
W	Weatherproof Aluminum

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
В	10K Ω , 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
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.



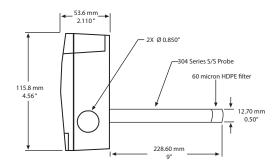




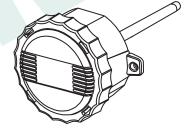


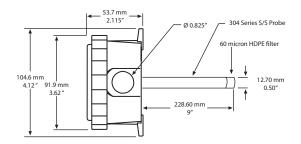




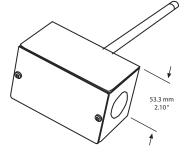


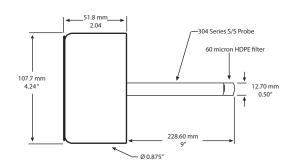
Round ABS Enclosure (E)



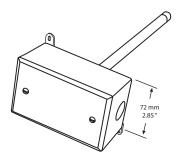


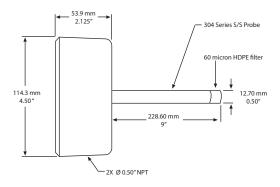
Metal Enclosure (M)





Weatherproof Enclosure (W)





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GREYSTONE

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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

RH200-SUB-001

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