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RELATIVE HUMIDITY TRANSDUCER RH Series



Precision humidity control/sensing

FEATURES:

- Highly stable RH sensor element
- Humidity range: 0-100%
- Accuracy available 2%, 3%, & 5%
- Choice of precision temperature sensors
- LCD display available
- Field selectable outputs
- AC/DC operation
- Custom logo available



Peace of mind through reliable humidity monitoring

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

DESCRIPTION:

The RH series of humidity transducers are designed for use in environmental monitoring and control systems where high performance and stability are demanded. It's state-of-the-art design combines digital linearization and temperature compensation with a world class capacitive sensor for reliability and accuracy in even the most critical applications. Various models cover many aspects of RH measurement and several optional features are available to meet virtually all HVAC applications.

SPECIFICATION:

Sensor Type:	Thermoset Polymer based capacitive ±2, 3, or 5% RH, (5% to 95% RH) 0 to 100% RH ±0.05% RH/ °C ±1.5% RH maximum ±0.5% RH typical ±0.5% RH typical 15 seconds typical ±1% RH typical at 50% RH in 5 yrs. 0° to 50°C (32° to 122°F) for RH100
Operating Humidity:	-40° to 70°C (-40° to 158°F) for RH200/RH300 0 to 95% RH non-condensing 18 to 35 Vdc, 15 to 26 Vac 22 mA maximum Negligible over specified operating range Reverse voltage protected and out limited 4-20 mA current loop, 0-1, 0-5 or 0-10 Vdc (jumper-selectable) 550 ohms max for current output 10K ohms min for voltage output
Internal Adjustments: Wiring Connections:	Clearly marked ZERO and SPAN pots Screw terminal block (14 to 22 AWG)
Optional LCD Display:	RH100A and RH200A 3 digit for 00.0 to 99.9% RH, 24 x 11mm (0.95"w x 0.45"h)
Optional Override Switch:	Normally open push-button, 0.4 VA at 24 Vac/dc two-wire output. (RH100A only)
Optional Temperature Sensor:	Various RTDs and thermistors available as two-wire resistance output (See Ordering Chart)
Enclosures:	RH100A (Executive), IP30 (Nema 1), 71x119x32mm (2.8"w x 4.7"h x 1.25"d) RH100B (Designer), IP30 (Nema 1), 70x114x30mm, (2.75"w x 4.5"h x 1.2"d) RH200A (ABS), IP64 (Nema 12),114x84x53mm (4.5"w x 3.3"h x 2.1"d) RH200E (Round), IP64 (Nema 3R), 91mm (3.6") diameter x 53mm (2.1") deep RH200M (Metal), IP30 (Nema 1), 102x63x58mm (4"w x 3.3"h x 2.1"d) RH200W (Metal WP) IP64 (Nema 3R),115x72x56mm (4.5"w x 2.8"h x 2.5"d) RH300A (ABS WP) IP65 (Nema 3R),122x112x63mm (4.8"w x 4.8"h x 2.5"d)
RH200 Probe:	230 mm (9") probe length x 12.7 mm (1/2") diameter stainless steel with porous filter









RELATIVE HUMIDITY: PRODUCT ORDERING INFORMATION

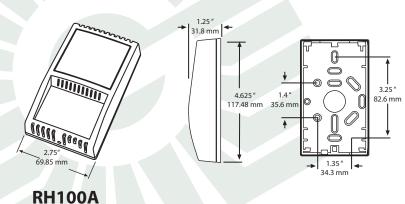
MODEL	Product Description							
RH100	Space							
RH200 RH300	Duct Outside Air							
	CODE							
	A B		Executive (RH100), ABS enclosure (RH200) and ABS hinged enclosure (RH300)					
	l E		Designer space (RH100) Round ABS enclosure c/w gasketed cover (RH200)					
	I m		Metal box (RH200)					
	w	Aluminum weatherproof (RH200)						
		COD	CODE Accuracy					
		02						
		03	3%					
		05	5%					
			CODE Optional Temperature Sensor					
			L	PT100-100Ω Platinum, IEC 751, 385 Alpha, thin film				
			c	PT1000-100Ω Platinum, IEC 751, 385 Alpha, thin film				
			F	1801Ω, NTC Thermistor, ±0.2°C				
			E	3,000Ω, NTC Thermistor, ±0.2°C				
			Н	100,000Ω, NTC Thermistor, ±0.2 C				
			P	10,000Ω, type 3, NTC Thermistor, ±0.2°C				
			J K	10,000Ω, type 2, NTC Thermistor, ± 0.2 °C 20,000Ω, NTC Thermistor, ± 0.2 °C				
			M	1,000Ω Nickel RTD				
			В	10,000Ω Type 3, NTC Thermistor, ±0.2 C c/w 11K shunt Resistor				
			G	2.252KΩ Thermistor, ±0.2 C				
				CODE	Options			
				01	LCD display (RH100A only)			
				02	Push button override, momentary (RH100A only)			
				03	LCD display and push button override (RH100A only)			
				AC LCD display (RH200A only)				

RH200 A 03 C -

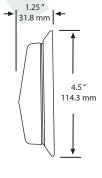
 $Greystone\ Energy\ Systems, Inc.\ reserves\ the\ right\ to\ make\ design\ modifications\ without\ prior\ notice.$

EXAMPLE:

RH200A03C - Duct humidity c/w ABS enclosure, 3% accuracy and 1000 Ω temperature sensor.



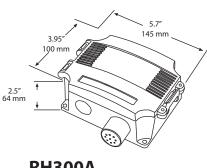






RH100B

2 75" 69 85 mm





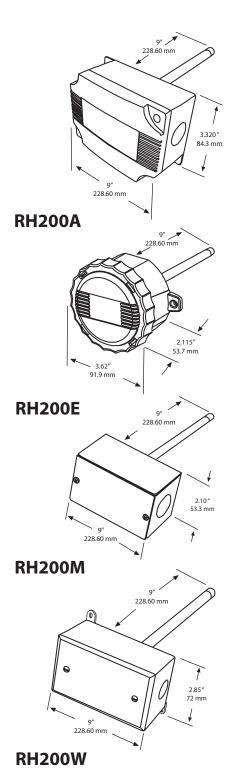


GREYSTONE

ACCURACY BY DESIGN

Greystone Energy Systems Inc. 150 English Drive, Moncton, NB Canada E1E 4G7

(506) 853-3057 Fax: (506) 853-6014 North America: 1-800-561-5611 e-mail: mail@greystoneenergy.com www.greystoneenergy.com













Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC sensors and transducers 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.