

DUCT HUMIDITY /TEMPERATURE **TRANSMITTER RH210 Series**

The RH210 series uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and Platinum RTD temperature sensor together with state-of-the-art digital linearization and temperature compensated circuitry to monitor humidity levels. The sensors are encapsulated in a 228.60 mm (9") long by 12.7 mm (0.5") diameter S/S probe. A 60 micron HDPE filter protects the sensor for contaminants.



SPECIFICATION.

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Humidity Sensor Type	Thermoset polymer based capacitive				
Accuracy	±2, 3, or 5% RH, (5% to 95% RH)	PART	. NUI	MBER SEI	LECTED
Measurement Range	0 to 100% RH				
Temperature Dependence	±0.05% RH/ °C				
Hysteresis	±1.5% RH maximum				
Repeatability	±0.5% RH typical	DD4	201	LICTO	FLEC
Linearity	±0.5% RH typical	PK	יטכ	<u>UCT S</u>	ELEC
Stability	±1% RH typical at 50% RH in 5 yrs.	МОІ	DEL	Product D	escription
Sensor Response Time	15 seconds typical	RH2	10A	Duct Hum	idity/Tempe
Sensitivity	0.1% RH				
Temperature Sensor Type	C - 1000 Ω Platinum. IEC751,			CODE	RH Accui
	385 Alpha, thin film, ±0.3°C @ 0°C			02	2%
	L00 Ω Platinum. IEC751,			03 39	
	385 Alpha, thin film, ±0.3°C @ 0°C			05	5%
Accuracy	±0.1% of span				
Operating Temperature	40° to 85°C (-40° to 185°F)				CODE
Operating Humidity	0 to 95% RH non-condensing				С
Power Supply	18 to 35 Vdc, 15 to 26 Vac				L
Consumption	22 mA maximum				
	Negligible over specified operating				
	range				
Protection Circuitry	Reverse voltage protected and				
	output limited				
Output Signal	4-20 mA current loop, 0-1, 0-5				
	or 0-10 Vdc				
Output Drive at 24 Vdc	550 ohms max for current output				
	10K ohms min for voltage output				
Internal Adjustments	Clearly marked ZERO and SPAN pots				
Wiring Connections	Screw terminal block (14 to 22 AWG)		,	. ↓	. ↓
Enclosure	Standard - ABS - UL94-5VB - IP61		·	· · ·	· ·
	(NEMA 2)				
	*In order to maintain the published	Greysto	one En	nergy Systen	ns, Inc. reser
	NEMA/IP ratings, properly rated	C		and and To	
	conduit or cable gland adapters	custo	om S	caled Te	mperatu
	must be used.				

...304 series stainless steel w/60 micron HDPE filter

ODEL	Product D	oduct Description				
1210A	Duct Humidity/Temperature Transmitter					
	CODE 02 03 3% 05	RH Accur 2% 5%	acy			
		C L	Temperature Sensor 1000 Ω Platinum, Class B, ±0.3°C @ 0°C 100 Ω Platinum, Class B, ±0.3°C @ 0°C CODE Output Signals (RH and Temperature) 2A 4-20 mA 2D 0-5 Vdc 2E 0-10 Vdc			
			CODE Scaled Temperature Range 1 0° - 35°C (32° - 95°F) 2 0° - 50°C (32° - 122°F) * Custom ranges available			

Custom Scaled Temperature Range:

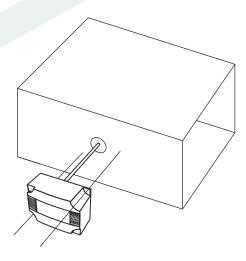
TYPICAL INSTALLATION:

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.

Mounting tabs on the outside of the enclosure for ease of installation .

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



DIMENSIONS:

