

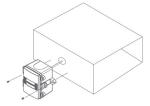
DESCRIPTION

The duct humidity transmitter 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 230 mm (9") long by 12.7 mm (0.5") diameter 304 S/S probe and is field replaceable. A 60 micron HDPE filter protects the sensor for contaminants. An optional integrated temperature sensor is available.

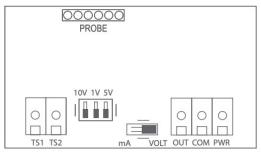
TYPICAL INSTALLATION

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.



WIRING INFORMATION

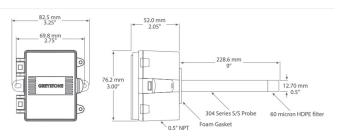


TERMINAL	FUNCTION
PWR	24 Vac/dc of controller or power supply
СОМ	COM GND or COMMON
OUT	Analog Output
TS1	Resistance Output
TS2	Resistance Output

AZ-HSDT

DUCT HUMIDITY TRANSMITTER





SPECIFICATIONS		
SENSOR	Thermoset polymer based capacitive	
SENSOR ACCURACY	±2, 3, or 5 %RH (5 to 95 %RH)	
MEASUREMENT RANGE	0 to 100 %RH non-condensing	
RESOLUTION	±0.01 %RH	
HYSTERESIS	±0.8 %RH @ 25°C (77°F)	
RESPONSE TIME	8 seconds	
STABILITY	<0.25% RH/year	
AMBIENT OPERATING RANGE	-40 to 50°C (-4 to 122°F)	
POWER SUPPLY	24 Vac/dc ~ ±10% typical	
CONSUMPTION	22 mA maximum @24Vdc, 70mA @24Vac	
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, 0-10 Vdc, or 0- 1 Vdc (field selectable)	
OUTPUT DRIVE @ 24 VDC	Current: 550 Ω maximum Voltage: 10 K Ω minimum	
OPTIONAL TEMPERATURE SENSOR	Various RTD's and thermistors available as 2 wire resistance output	
ENCLOSURE	A: ABS, UL94-V0, IP65 (NEMA 4X) E: Same as A, with thread adapter (1/2" NPT to M16) and cable gland fitting	
PROBE	230mm (9") length x 12.7mm (1/2") diameter s/s with porous filter	
TERMINATION	Screw terminal block (14 to 22 AWG)	
COUNTRY OF ORIGIN	Canada	

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ORDERING		
PRODUCT	HRC	Room Humidity Transmitter
ENCLOSURE	A E	ABS with hinged and gasketed cover Same as A, with thread adapter and cable gland fitting
RH ACCURACY	2 3 5	2% 3% 5%
OPTIONAL TEMPERATURE SENSOR	00 02 05 06 06 08 12 13 14 20 24	No Temperature Sensor Option 100Ω Platinum, IEC 751, 385 Alpha, thin film, 3 wire 1801Ω NTC Thermistor, $\pm 0.2^{\circ}$ C 3000Ω NTC Thermistor, $\pm 0.2^{\circ}$ C $10,000\Omega$ Type 3, NTC Thermistor, $\pm 0.2^{\circ}$ C $2.252K\Omega$ NTC Thermistor, $\pm 0.2^{\circ}$ C 1000Ω Platinum, IEC 751, 385 Alpha, thin film 1000Ω Nickel, Class B, DIN 43760 $10,000\Omega$ Type 3, NTC Thermistor, $\pm 0.2^{\circ}$ C c/w 11K shunt resistor $20,000\Omega$ NTC Thermistor, $\pm 0.2^{\circ}$ C $10,000\Omega$ Type 2, NTC Thermistor, $\pm 0.2^{\circ}$ C $10,000\Omega$ Type 2, NTC Thermistor, $\pm 0.2^{\circ}$ C $10,000\Omega$ 25°C, $\pm 0.000\Omega$ A 3435 $\pm 0.0000\Omega$ NTC Thermistor, $\pm 0.000\Omega$ C $\pm 0.0000\Omega$ NTC Thermistor, $\pm 0.000\Omega$ NTC Thermistor, ± 0.000

PART NUMBER
HSDT

ORDERING – REPLACEMENT SENSOR MODULE		
PRODUCT	HRMPB	B Replacement Humidity Sensor Module - Probe
RH ACCURACY	2 3 5	2% 3% 5%
OPTIONAL TEMPERATURE SENSOR	00 02 05 06 06 08 12 13 14 20 24	No Temperature Sensor Option 100Ω Platinum, IEC 751, 385 Alpha, thin film, 3 wire 1801Ω NTC Thermistor, $\pm 0.2^{\circ}$ C 3000Ω NTC Thermistor, $\pm 0.2^{\circ}$ C $10,000\Omega$ Type 3, NTC Thermistor, $\pm 0.2^{\circ}$ C $2.252K\Omega$ NTC Thermistor, 2.2° C $2.252K\Omega$



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