DUCT HUMIDITY TRANSMITTER

HSDT Series

The HSDT series incorporates:

- Highly Accurate RH Sensing Element
- Field selectable outputs
- Choice of precision temperature sensors
- Compact ABS enclosure
- S/S Probe
- AC/DC operation

PRODUCT HIGHLIGHTS

- Humidity range: 0-100%
- Accuracy available 2%, 3%, & 5%

GREYSTONE
ENERGY SYSTEMS INC

SPECIFICATIONS

SPECIFICATIONS	
SENSOR TYPE	Thermoset polymer based capacitive
SENSOR ACCURACY	±2, 3, or 5 %RH (5 to 95 %RH)
MEASUREMENT RANGE	RANGE 0 to 100 %RH
TEMPERATURE DEPENDENCE	±0.05 %RH/°C
HYSTERESIS	±1.5 %RH maximum
REPEATABILITY	±0.5 %RH typical
STABILITY	±1% RH typical at 50 %RH in 5 years
AMBIENT OPERATING RANGE	-40 to 50°C (-40 to 122°F)
OPERATING HUMIDITY	5 to 95 %RH non-condensing
POWER SUPPLY	24 Vac/dc, ±10% typical, 28 Vac/dc maximum
CONSUMPTION	22 mA maximum
INPUT VOLTAGE EFFECT	Negligible over specified operating range
PROTECTION CIRCUITRY	Reverse voltage protected and output limited
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, 0-10 Vdc, or 0-1 Vdc (jumper selectable)
OUTPUT DRIVE @ 24 VDC	Current: 550Ω max Voltage: 10,000Ω min
INTERNAL ADJUSTMENTS	Clearly marked ZERO and SPAN pots
OPTIONAL TEMPERATURE SENSOR	RTD's or 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 M15) 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