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%

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 maxVoltage: 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 |