DUCT HUMIDITY/TEMPERATURE TRANSMITTER

HTDT Series

The HTDT series incorporates:

* Highly Accurate RH Sensing Element
* Choice of analog outputs
* Precision Platinum RTD for Temperature
* Polycarbonate weatherproof enclosure
* S/S Probe
* AC/DC operation

PRODUCT HIGHLIGHTS

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

ENGINEERING SPEC’S

* Shall be IP65 (NEMA 4X) with a UL94-V0 rated enclosure
* External mounting tabs must be slotted & tapered away from enclosure to ease field installation
* Enclosure shall be complete with neoprene gasket for duct to enclosure seal
* Enclosure shall be complete with threaded (1/2 NPT and/or M16) conduit connection
* Cover must be hinged and securely attached in the open position
* Operating temperature range must be -40 to 50°C (-40 to 122°F)
* Cover must contain security screw as extra protection from opening
* Product shall be CE approved

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| SPECIFICATIONS |  |
| HUMIDITY SENSOR TYPE  | Thermoset polymer based capacitive |
| TEMPERATURE SENSOR TYPE  | 1000Ω Platinum, IEC 751, 385 Alpha, thin film |
| HUMIDITY SENSOR ACCURACY  | ±2, 3, or 5 %RH (5 to 95 %RH) |
| TEMPERATURE SENSOR ACCURACY  | ±0.1% of span |
| SENSOR RESPONSE TIME  | 15 seconds typical |
| MEASUREMENT RANGE  | 0 to 100 %RH |
| HYSTERESIS  | ±1.5 %RH maximum |
| REPEATABILITY  | ±0.5 %RH typical |
| OPERATING TEMPERATURE  | -40 to 50°C (-40 to 122°F) |
| OPERATING HUMIDITY  | 0 to 95 %RH non-condensing |
| POWER SUPPLY  | 24 Vac/Vdc, +/- 10% |
| 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, 0-5 Vdc, or 0-10 Vdc (factory configured) |
| OUTPUT DRIVE @ 24 VDC  | Current: 550Ω maxVoltage: 10,000Ω min |
| INTERNAL ADJUSTMENTS  | Clearly marked ZERO and SPAN pots |
| ENCLOSURE  | B: Polycarbonate, UL94-V0, IP65 (NEMA 4X)F: Same as B, 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 |