OUTSIDE TEMPERATURE AND HUMIDITY SENSOR

NTOA SERIES

The outside temperature and humidity sensor is installed on outside North facing wall, under the eaves which will provide protection from direct sunlight and wind.

PRODUCT HIGHLIGHTS

• Temperature sensor and relative humidity sensor mounted in outside probe

• Hinged gasketed enclosure designed for outdoor mounting

• RS-485 network with either BACnet or Modbus protocol

• Modbus parameters can be customized at factory.

SPECIFICATIONS

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| DESCRIPTION | ENGINEERING SPEC |
| TEMPERATURE SENSOR | Sensing Element: 20KΩ NTC ThermistorAccuracy: ±0.2°C (±0.4°F) curve matchedRange: -40 to 50°C (-40 to 122°F)Resolution: 0.1° C/F |
| RH SENSOR  | Sensing Element: Thermistor polymer based capacitiveAccuracy: ±2 %RHRange: 0 to 100 %RH, non-condensingResolution: 1 %RHHysteresis: ±3 %RHResponse Time: 15 seconds typicalStability: ±1.2 %RH typical @ 50 %RH in 5 years |
| PROBE | 20mm (0.8”) long x 28mm (1.1”) diameter, PVC hub with mesh filter |
| POWER SUPPLY | BACnet®: 24 Vac/dc ±10% (non-isolated half-wave rectified)Modbus: 15 to 30 Vac/dc (non-isolated half-wave rectified) |
| CONSUMPTION | BACnet®: 25 mA max @ 24 VdcModbus: 10 mA max @ 24 Vdc |
| PROTECTION CIRCUITRY | Reverse voltage protected and output limited |
| WIRING CONNECTIONS | Screw terminal block (14 to 22 AWG) |
| COMMUNICATION  | Hardware: 2 wire RS-485Software: Native BACnet® or Modbus MS/TP protocol, Factory selectableBaud Rate: Locally set from 300 to 76800MAC Address Range: BACnet® - 0-127Modbus - 1-255 |
| OPERATING CONDITIONS | -40 to 50°C (-40 to 122°F), 0-95 %RH, non-condensing |
| ENCLOSURE | ABS, UL94-5VB, IP61 (NEMA 2)114mm W x 84mm H x 53mm D (4.5” x 3.3” x 2.1”) |
| COUNTRY OF ORIGIN | Canada |