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

|  |  |
| --- | --- |
| DESCRIPTION | ENGINEERING SPEC |
| TEMPERATURE SENSOR | Sensing Element: 20KΩ NTC Thermistor  Accuracy: ±0.2°C (±0.4°F) curve matched  Range: -40 to 50°C (-40 to 122°F)  Resolution: 0.1° C/F |
| RH SENSOR | Sensing Element: Thermistor polymer based capacitive  Accuracy: ±2 %RH  Range: 0 to 100 %RH, non-condensing  Resolution: 1 %RH  Hysteresis: ±3 %RH  Response Time: 15 seconds typical  Stability: ±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 Vdc  Modbus: 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-485  Software: Native BACnet® or Modbus MS/TP protocol, Factory selectable  Baud Rate: Locally set from 300 to 76800  MAC Address Range: BACnet® - 0-127  Modbus - 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 |