

OUTSIDE NETWORK TEMPERATURE SENSOR

TNOS Series

The single point outside network temperature transmitter sensor incorporates a precision sensor housed in a protective sun/wind shield. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. The transmitter provides a BACnet® or Modbus signal for network connection. A compact, weatherproof ABS enclosure with a hinged and gasketed cover is provided for ease of installation.

PRODUCT HIGHLIGHTS

* Precision Thermistor sending element
* High accuracy transmitter
* Compact ABS enclosure

SPECIFICATIONS

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| DESCRIPTION | ENGINEERING SPEC |
| POWER SUPPLY | BACnet®: 24 Vac/dc ±10% (non-isolated half-wave rectified)  Modbus: 24 Vac/dc ±20% (non-isolated half-wave rectified) |
| CONSUMPTION | BACnet®: 25 mA max @ 24 Vdc  Modbus: 10 mA max @ 24 Vdc |
| PROTECTION CIRCUITRY | Reverse voltage protected, transient protected |
| OPERATING ENVIRONMENT | -40 to 50°C (-40 to 122°F), 5 to 95 %RH non-condensing |
| TEMPERATURE SENSOR | 20 KΩ NTC thermistor |
| SENSOR ACCURACY | ±0.2°C (±0.36°F) @ 0 to 70°C (32 to 158°F) |
| PROBE SENSING RANGE | -40 to 50°C (-40 to 122°F) |
| RESOLUTION | 0.1°C/°F |
| WIRE MATERIAL | PVC insulated, parallel bonded (22 AWG) |
| BACnet® INTERFACE | MS/TP, 2-wire RS-485 |
| MODBUS INTERFACE | MS/TP (RTU), 2-wire RS-485 |
| BAUD RATE | 9600, 19200, 38400, 57600, 76800 or 115200 (auto-detect) |
| ADDRESS RANGE | BACnet®: 0 to 127 (switch selectable)  Modbus: 1 to 255 (switch selectable) |
| SERIAL CONFIGURATION | 8N1 |
| MODBUS ERROR CHECKING | CRC-16 reverse (A001) |
| INPUT VOLTAGE EFFECT | Negligible over specified operating range |
| PROTECTION CIRCUITRY | Reverse voltage protected and transient protected |
| WIRING CONNECTION | Screw terminal block (14 to 22 AWG) |
| ENCLOSURE | ABS, UL94-V0, IP65  E style includes thread adapter (1/2” NPT to M16) and cable gland fitting |
| DIMENSIONS | 82.5mm W x 76.2mm H x 52.0mm D (3.25” x 3.0” x 2.05”) |
| COUNTRY OF ORIGIN | Canada |





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