OUTSIDE LOW LIMIT THERMOSTAT

TLOS Series

The single point outside air low limit thermostat incorporates a precision thermistor temperature sensor and provides a Form C relay output (NO/ NC) with an adjustable setpoint. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. It is provided in a weatherproof Polycarbonate enclosure.

PRODUCT HIGHLIGHTS

* Compact form factor enclosure with soft close cover
* IP 65 Enclosure
* Slotted mounting holes angled for ease of field installation
* Custom branding available
* Multiple mounting options

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
* Probe shall be one piece 6061 T6 AL fully potted
* 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
* Sensing 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** |  |
| POWER SUPPLY | 12 to 28 Vac/dc |
| SENSOR ACCURACY | ±0.2°C, 0 to 70°C (±0.36°F, 32 to 158°F) |
| PROBE SENSING RANGE | -40 to 50°C (-40 to 122°F) |
| PROBE  | One piece machined 6061 AL |
| WIRE MATERIAL | PVC insulated, parallel bonded |
| CONSUMPTION | 50 mA max |
| RELAY CONTACTS | SPDT, Form C contacts (N.O. and N.C.)5 Amps @ 30 Vdc/250 Vac resistive1.5 Amps @ 30 Vdc/250 vac inductive |
| RELAY ACTION | Activates on temperature fall, Auto-reset |
| SETPOINT OPERATION | Single-turn knob-pot on PCB |
| ADJUSTABLE SETPOINT | -4 to 10°C (25 to 50°C) |
| TEMPERATURE DIFFERENTIAL | **Low:** 1.1°C **(**2°F) **Mid:** 2.8°C (5°F) **High:** 5.6°C (10°F)Jumper selectable |
| TEMPERATURE SENSOR | 10,000Ω curve matched precision thermistor |
| AMBIENT OPERATING RANGE | -40 to 50°C (-40 to 122°F), 5 to 95 %RH, non-condensing |
| STORAGE CONDITIONS | -40 to 70°C (-40 to 158°F), 5 to 95 %RH, non-condensing |
| WIRING CONNECTIONS | Screw terminal block (14 to 22 AWG) |
| ENCLOSURE | **B:** Grey polycarbonate UL94-V0, IP65 (NEMA 4X)**F:** Same as B with thread adapter (1/2” NPT to M16) and cable gland fitting |
| COUNTRY OF ORIGIN | Canada |