STRAP-ON HIGH LIMIT THERMOSTAT

THSO Series

The single point strap-on high limit thermostat incorporates a precision thermistor temperature sensor and provides a Form C relay output (NO/ NC) with an adjustable setpoint. The sensor is encapsulated to a 38 mm x 38 mm (1.5”x 1.5”) aluminum plate and adhered to a 38 mm x 25.4 mm (1.5 x 1“) compressible foam. A 254 mm (10”) S/S Pipe clamp is provided to secure the assembly to various sizes of pipe. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. A hinged and gasketed Polycarbonate enclosure is included for ease of installation.

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

SPECIFICATIONS

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| 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 | -20 to 105°C (-4 to 221°F) |
| PROBE MATERIAL | Aluminum plate with compressible foam backing |
| PROBE DIMENSIONS | 38 mm (1.5”) square |
| PROBE LENGTH | 50 mm, 100 mm, 150 mm, 200 mm (2”, 4”, 6”, 8”) |
| 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 resistive  1.5 Amps @ 30 Vdc/250 vac inductive |
| RELAY ACTION | Activates on temperature rise |
| SETPOINT OPERATION | Single-turn knob-pot on PCB |
| ADJUSTABLE SETPOINT | **Range 1:** 38 to 104°C (100 to 220°F) **Range 2:** 38 to 60°C (100 to 140°C) |
| SETPOINT TEMPERATURE | Low/Mid/High jumper selectable  Differential 1.1, 2.8, 5.6°C (2, 5, 10°F) |
| TEMPERATURE SENSOR | 10,000Ω curve matched precision thermistor |
| OPERATING CONDITIONS | -10 to 50°C (14 to 122°F), 5 to 95 %RH, non-condensing |
| STORAGE CONDITIONS | -30 to 70°C (-22 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 |