



REMOTE PROBE STRAP-ON HIGH LIMIT THERMOSTAT

THRP 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 in a 6 mm (0.236") OD, 304 stainless steel probe and is available in various lengths (see ordering chart). Standard wire length is 5' (1.5 m). 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

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 304 S.S 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 100°C (-40 to 212°F)
- Cover must contain security screw as extra protection from opening
- Product shall be CE approved


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 100°C (-40 to 212°F)
PROBE MATERIAL	304 series stainless steel
PROBE DIAMETER	6 mm (0236")
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, Auto-reset
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)
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
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