



ALL PURPOSE DUCT/IMMERSION LOW LIMIT THERMOSTAT

TLAP Series

The single point duct/immersion low limit thermostat incorporates a precision thermistor sensor and provides a Form C relay output (NO/NC) with an adjustable setpoint. The sensor is encapsulated in a 6mm (0.236") OD, 304 stainless steel probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resist moisture penetration. A hinged and gasketed Polycarbonate enclosure is provided 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
- Thermowell adapters

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
- Enclosure shall be complete with neoprene gasket for duct to enclosure seal
- Probe – Enclosure connection shall be fully potted to eliminate probe condensation and guarantee IP65 (NEMA4X rating)
- 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
- Probe must be 6mm O.D 304 stainless steel, of different lengths to cover between 1/3 to 2/3 of duct width
- Sensing range must be -20 to 105°C (-4 to 221°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	-20 to 105°C (-4 to 221°F)
PROBE MATERIAL	304 series stainless steel
PROBE DIAMETER	6 mm (0.236")
STANDARD LENGTHS	50, 100, 150, 200, 300, and 450 mm (2", 4", 6", 8", 12", and 18")
WIRE MATERIAL	PVC insulated, parallel bonded, 22 AWG
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 fall, Auto-reset
SETPOINT OPERATION	Single-turn knob-pot on PCB
ADJUSTABLE SETPOINT	-4 to 10°C (25 to 50°F)
TEMPERATURE DIFFERENTIAL	Low: 1.1°C (2°F) Mid: 2.8°C(5°F) High: 5.6°C (10°F) Jumper selectable
TEMPERATURE SENSOR	Precision thermistor
AMBIENT OPERATING RANGE	-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