



AZ-TLAP Series

ALL PURPOSE DUCT/IMMERSION LOW LIMIT THERMOSTAT

PRODUCT DESCRIPTION

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.

TYPICAL INSTALLATION

For complete installation and wiring details, please refer to the product installation instructions.

The duct type probes are installed through a hole in the side of the duct to monitor a single point temperature within the duct. Since the probes are tip sensitive, select a probe length that places the sensor well into the duct. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

The enclosure provides mounting tabs for ease of installation.

NOTE: For immersion applications, T2 series thermowell is required. When using a T1 series thermowell an adapter will be required.

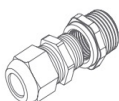
ACCESSORIES— INCLUDED WITH ENCLOSURE OPTION



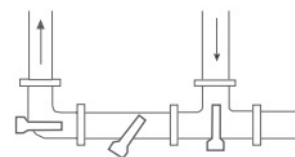
CABLE GLAND FITTING



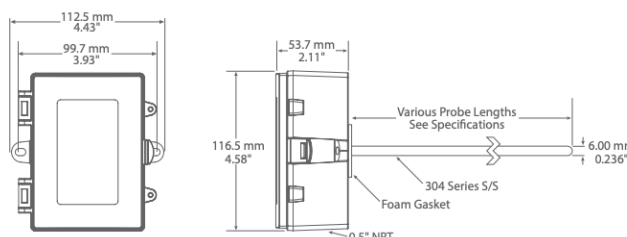
THREAD ADAPTER 1/2" NPT TO M16



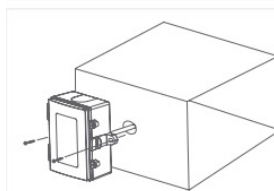
T1-AP THERMOWELL ADAPTER



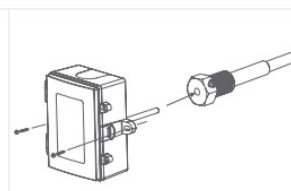
THERMOWELL PLACEMENT



MOUNTING STYLES



DUCT MOUNTING



THERMOWELL MOUNTING

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HVAC Manufacturer's Representative



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ALL PURPOSE DUCT/IMMERSION LOW LIMIT THERMOSTAT

SPECIFICATIONS

POWER SUPPLY	12 to 28 Vac/dc
SENSORY 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 (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
SETPOINT OPERATION	Single-turn knob-pot on PCB
ADJUSTABLE SETPOINT	-4 to 10°C (25 to 50°F)
SETPOINT TEMPERATURE	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

ORDERING			PART NUMBER
PRODUCT	TLAP	All Purpose Duct/Immersion Low Limit Thermostat	TLAP
ENCLOSURE	B F	Polycarbonate with hinged and gasketed cover Same as B, with thread adapter & cable gland fitting	
SENSOR	24	10,000Ω, Type 2, NTC Thermistor, ±0.2°C	
PROBE LENGTH	A B C D E F	50mm (2") 100mm (4") 150mm (6") 200mm (8") 300mm (12") 450mm (18")	
ADJUSTABLE SETPOINT RANGE	01	01 -4 to 10°C (25 to 50°F)	

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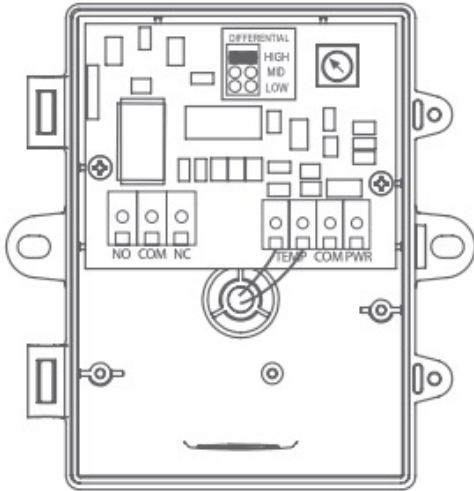




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WIRING INFORMATION



TERMINAL	FUNCTION
PWR	POWER SUPPLY
COM	POWER SUPPLY COMMON
TEMP (2)	TEMPERATURE SNEOR INPUT
NO	RELAY OUTPUT – NORMALLY OPEN CONTACT
CDM	RELAY COMMON
NC	RELAY OUPUT – NORMALLY CLOSED CONTACT

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