



# AZ-THAP

## ALL PURPOSE HIGH LIMIT THERMOSTAT

### DESCRIPTION

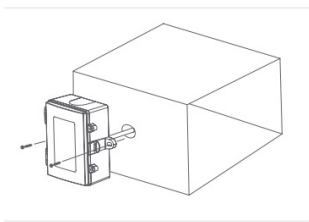
The single point duct/immersion high limit thermostat incorporates a precision thermistor sensor and provides a Form C relay output (NO/NC) with an adjustable setpoint. The sensor is encapsulated in a 6mm (0.236") OD, 304 stainless steel probe and is available in various lengths (see ordering chart). 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

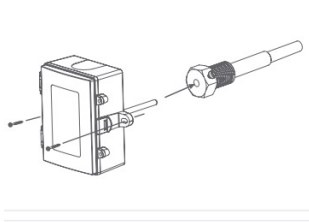
For complete installation and wiring details, please refer to the product installation instructions.

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.

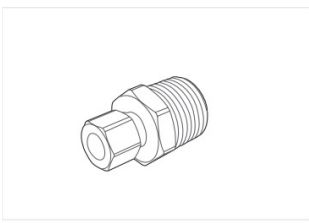
### MOUNTING STYLES



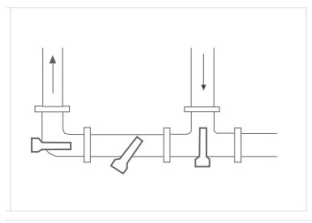
DUCT MOUNTING



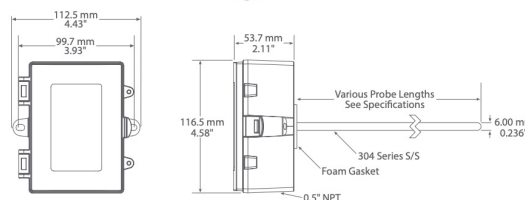
THERMOWELL MOUNTING



T1-AP THERMOWELL ADAPTER



THERMOWELL PLACEMENT



### SPECIFICATIONS

POWER SUPPLY	12 to 28 Vac/dc
SENSOR ACCURACY	$\pm 0.2^{\circ}\text{C}$ , 0 to $70^{\circ}\text{C}$ ( $\pm 0.36^{\circ}\text{F}$ , 32 to $158^{\circ}\text{F}$ )
PROBE SENSING RANGE	$-40$ to $100^{\circ}\text{C}$ ( $-40$ to $212^{\circ}\text{F}$ )
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 rise
SETPOINT OPERATION	Single-turn knob-pot on PCB
ADJUSTABLE SETPOINT	Range 1: $38$ to $104^{\circ}\text{C}$ ( $100$ to $220^{\circ}\text{F}$ ) Range 2: $38$ to $60^{\circ}\text{C}$ ( $100$ to $140^{\circ}\text{F}$ )
TEMPERATURE DIFFERENTIAL	Low: $1.1^{\circ}\text{C}$ ( $2^{\circ}\text{F}$ ) Mid: $2.8^{\circ}\text{C}$ ( $5^{\circ}\text{F}$ ) High: $5.6^{\circ}\text{C}$ ( $10^{\circ}\text{F}$ ) Jumper selectable
TEMPERATURE SENSOR	Precision thermistor
OPERATING CONDITIONS	$-10$ to $50^{\circ}\text{C}$ ( $14$ to $122^{\circ}\text{F}$ ), 5 to 95 %RH, non-condensing
STORAGE CONDITIONS	$-30$ to $70^{\circ}\text{C}$ ( $-22$ to $158^{\circ}\text{F}$ ), 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



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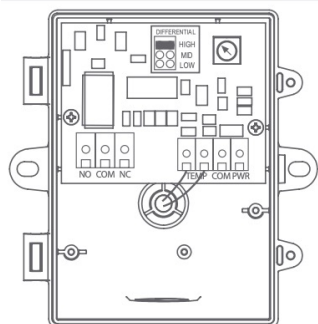
## ACCESSORIES – INCLUDED WITH F ENCLOSURE OPTION



CABLE GLAND FITTING

THREAD ADAPTER 1/2" NPT TO M16

## WIRING INFORMATION



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

## ORDERING

PRODUCT	THAP	All Purpose Duct/Immersion High Limit thermostat
ENCLOSURE	B F	Polycarbonate, with hinged and gasketed cover Same as B, with thread adapter (1/2" NPT to M16) and 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 02	38 to 104°C (100 to 220°F) 38 to 60°C (100 to 140°F)

## PART NUMBER

THAP

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200B VERDI STREET, FARMINGDALE NY 11735  
[SALES@DVACHVAC.COM](mailto:SALES@DVACHVAC.COM)  
516-256-3131



HVAC Manufacturer's Representative