

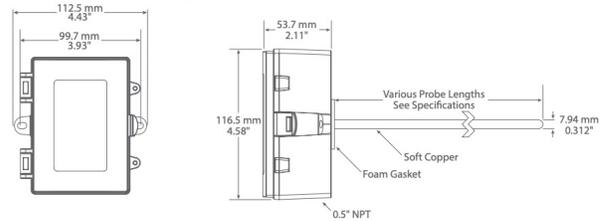


# AZ-THDC

## FLEXIBLE COPPER DUCT AVERAGE HIGH LIMIT THERMOSTAT

### DESCRIPTION

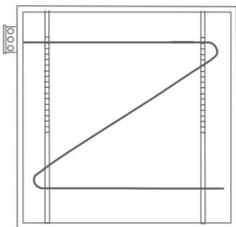
The multi point duct average high limit thermostat incorporates several precision thermistor temperature sensors and provides a Form C relay output (NO/NC) with an adjustable setpoint. The sensor is encapsulated in a 7.94 mm (0.3125") OD, soft copper probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resistance to moisture penetration. A Polycarbonate enclosure with a hinged and gasketed cover is provided for ease of installation.



### TYPICAL INSTALLATION

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

The duct average probes are installed through a hole in the side of the duct to monitor an average temperature within the duct. Select a probe length that allows for criss-crossing the duct multiple times. Install the probes 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.



### ACCESSORIES – INCLUDED WITH F ENCLOSURE OPTION



CABLE GLAND FITTING    THREAD ADAPTER 1/2" NPT TO M16

### 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 60°C (-4 to 140°F)
PROBE MATERIAL	Soft Copper
PROBE DIAMETER	7.94 mm (0.3125")
STANDARD LENGTHS	1800mm, 3600mm, 6100mm, 7300mm (6', 12', 20', 24')
WIRE MATERIAL	FT-6 plenum rated cable
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	38 to 60°C (100 to 140°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	10,000Ω curve matched precision thermistor
SENSOR ACCURACY	±0.2°C, 0 to 70°C (±0.36°F, 32 to 158°F)
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

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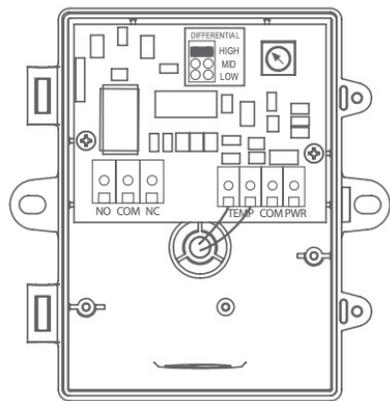




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FLEXIBLE COPPER DUCT AVERAGE HIGH LIMIT THERMOSTAT

## 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			PART NUMBER
PRODUCT	THDC	Flexible Copper Duct Average High Limit Thermostat	THDC
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	I J K L	1800mm (6') 3600mm (12') 6100mm (20') 7300mm (24')	
ADJUSTABLE SETPOINT RANGE	02	38 to 60°C (100 to 140°F)	

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