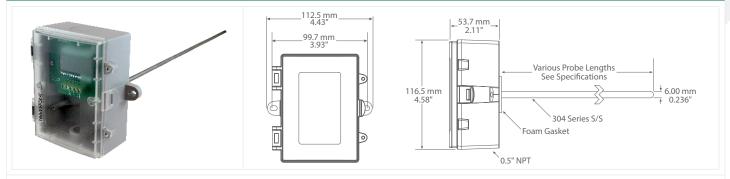


HIGH ACCURACY ALL PURPOSE TEMPERATURE TRANSMITTER WITH LCD



SPECIFICATIONS

SENSOR TYPE

WIRF MATERIAL

PROBE MATERIAL

PROBE DIAMETER

OUTPUT SIGNAL

POWER SUPPLY

STANDARD LENGTHS

TRANSMITTER ACCURACY

CONSUMPTION (MAX)

PROTECTION CIRCUITRY

OUTPUT DRIVE @ 24 VDC

AMBIENT OPERATING RANGE

WIRING CONNECTIONS

COUNTRY OF ORIGIN

LCD DISPLAY UNITS

DISPLAY RANGE

DISPLAY SIZE

DIGIT HEIGHT

ENCLOSURE

SENSOR ACCURACY

PROBE SENSING RANGE

HATDAP SERIES

PRODUCT DESCRIPTION

The high accuracy single point duct/immersion temperature transmitter incorporates a precision platinum RTD encapsulated in a 6 mm (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. The transmitter provides a high accuracy signal with excellent long term stability, low hysteresis and fast response. It is available with various scaled ranges. A weatherproof Polycarbonate enclosure is included for ease of installation. An LCD is provided in either °C or °F.

TYPICAL INSTALLATION

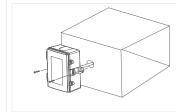
For complete installation and wiring details, please refer to the product installation instructions.

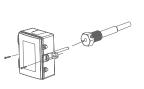
The duct type probes are installed through a hole in the side of the duct to monitor a single point temperature within the duct. Since the probes are tip sensitive, select a probe length that places the sensor well into the duct. Install the probe in a straight section of duct at a suitable distance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

MOUNTING STYLES







Canada

1000Ω Platinum, IEC 751, 385 Alpha, thin film

RTD 1/10 DIN: ±0.03°C (±0.054°F) @ 0°C (32°F)

4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured)

RTD Class A: $\pm 0.15^{\circ}$ C ($\pm 0.27^{\circ}$ F) @ 0° C (32° F) **RTD 1/3 DIN:** $\pm 0.1^{\circ}$ C ($\pm 0.18^{\circ}$ F) @ 0° C (32° F)

-20 to 100°C (-4 to 212°F)

304 series stainless steel

(2", 4", 6", 8", 12", and 18")

15-30 Vdc or 12-28 Vac

Current: 20 mA

Voltage: 11 mA

Current: 700Ω max

Voltage: 20,000Ω min

°C or °F (factory configured)

3 digit for -88.8 to 888 as required

11.4mm (0.45") plus °C/°F symbol

38.1mm W x 16.5mm H (1.5" x 0.65")

0 to 50°C (32 to 122°F), 0 to 95 %RH

Screw terminal block (14 to 22 AWG)

B: Grey polycarbonate UL94-V0, IP65 (NEMA 4X)

F: Same as B with thread adapter (1/2" NPT to M16) and cable gland fitting

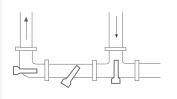
50, 100, 150, 200, 300, and 400 mm

±0.2% of span, including linearity

Reverse voltage protected and output limited

FT-4, 22 AWG

6 mm (0.236")



T1-AP THERMOWELL ADAPTER

THERMOWELL PLACEMENT

DUCT MOUNTING

THERMOWELL MOUNTING



ACCESSORIES - INCLUDED WITH F ENCLOSURE OPTION



WIRING INFORMATION



ORDERING			PART NUMBER
PRODUCT	HATDAP	High Accuracy All Purpose Duct/Immersion Temperature Transmitter with Display	HATDAP
ENCLOSURE	B F	Polycarbonate, with hinged and gasketed cover Same as B, with thread adapter and cable gland fitting	
DISPLAY UNITS	C F	Celsius Fahrenheit	
SENSOR	18 48 22	1000Ω, Platinum, IEC 751, 385 Alpha, thin film, Class A 1000Ω, Platinum, IEC 751, 385 Alpha, thin film 1/3 DIN 1000Ω, Platinum, IEC 751, 385 Alpha, thin film 1/10 DIN	
PROBELENGTH	A B C D E F	50mm (2″) 100mm (4″) 150mm (6″) 200mm (8″) 300mm (12″) 450mm (18″)	
OUTPUT	A D E	4-20 mA, 2 or 3 wire 0-5 Vdc, 3 wire 0-10 Vdc, 3 wire	
SCALED RANGE	001 002 003	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F) 0 to 100°C (32 to 212°F)	



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