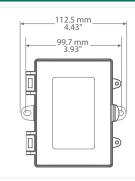
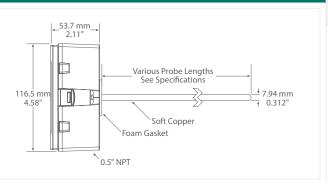


HIGH ACCURACY FLEXIBLE COPPER DUCT AVERAGE TEMPERATURE TRANSMITTER WITH LCD







HATDDC SERIES

PRODUCT DESCRIPTION

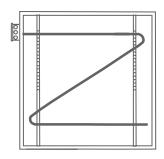
The high accuracy duct averaging temperature transmitter incorporates numerous precision platinum RTD's encapsulated in a 7.94 mm (0.3125") OD, soft copper probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resist moisture penetration. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response for measurement of duct temperatures. 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 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 elements.

The enclosure provides mounting tabs for ease of installation.



SPECIFICATIONS			
SENSOR TYPE	1000Ω Platinum, IEC 751, 385 Alpha, thin film		
SENSOR ACCURACY	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) RTD 1/10 DIN: $\pm 0.03^{\circ}$ C ($\pm 0.054^{\circ}$ F) @ 0°C (32°F)		
PROBE SENSING RANGE	-20 to 60°C (-4 to 140°F)		
WIRE MATERIAL	FT-6 rated plenum cable, 22 AWG		
PROBE MATERIAL	Soft copper		
PROBE DIAMETER	7.94 mm (0.312")		
STANDARD LENGTHS	1800mm, 3600mm, 6100mm, 7300mm (6', 12', 20', 24')		
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured)		
TRANSMITTER ACCURACY	±0.2% of span, including linearity		
POWER SUPPLY	15-30 Vdc or 12-28 Vac		
CONSUMPTION (MAX)	Current: 20 mA Voltage: 11 mA		
PROTECTION CIRCUITRY	Reverse voltage protected and output limited		
OUTPUT DRIVE @ 24 VDC	Current: 700Ω max Voltage: $20,000\Omega$ min		
LCD DISPLAY UNITS	°C or °F (factory configured)		
DISPLAY RANGE	3 digit for -88.8 to 888 as required		
DISPLAY SIZE	38.1mm W x 16.5mm H (1.5" x 0.65")		
DIGIT HEIGHT	11.4mm (0.45") plus °C/°F symbol		
AMBIENT OPERATING RANGE	0 to 50°C (32 to 122°F), 0 to 95 %RH		
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		
WIRING CONNECTIONS	Screw terminal block (14 to 22 AWG)		
COUNTRY OF ORIGIN	Canada		

OPTIONAL ACCESSORIES - INCLUDED WITH F ENCLOSURE OPTION







ORDERING			PART NUMBER
PRODUCT	HATDDC	High Accuracy Copper Duct Average Temperature Transmitter with Display	HATDDC
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	1000 Ω , Platinum, 2 wire, IEC 751, 385 Alpha, thin film, Class A 1000 Ω , Platinum, 2 wire, IEC 751, 385 Alpha, thin film 1/3 DIN 1000 Ω , Platinum, 2 wire, IEC 751, 385 Alpha, thin film 1/10 DIN	
PROBE LENGTH	I J K L	1800mm (6') 3600mm (12') 6100mm (20') 7300mm (24')	
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	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F)	

NOTE: Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

