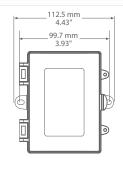
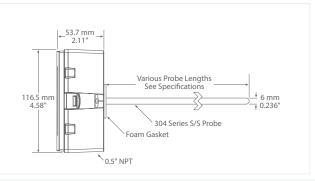


HIGH ACCURACY RIGID DUCT AVERAGE TEMPERATURE TRANSMITTER WITH LCD







HATDDR SERIES

PRODUCT DESCRIPTION

The high accuracy multi-point rigid duct average temperature transmitter incorporates four precision platinum RTD's 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. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is available with various 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.

SPECIFICATIONS			
SENSOR TYPE	1000Ω Platinum, IEC 751, 385 Alpha, thin film		
SENSOR ACCURACY	RTD Class A: ±0.15°C (±0.27°F) @ 0°C (32°F) RTD 1/3 DIN: ±0.1°C (±0.18°F) @ 0°C (32°F) RTD 1/10 DIN: ±0.03°C (±0.054°F) @ 0°C (32°F)		
PROBE SENSING RANGE	-40 to 60°C (-40 to 140°F)		
PROBE DIAMETER	6mm (0.236")		
PROBE MATERIAL	304 series stainless steel		
WIRE MATERIAL	PVC/Kynar, 28 AWG		
STANDARD LENGTHS	450, 600, 900 mm (18", 24", 36")		
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		
INPUT VOLTAGE EFFECT	Negligible over specified operating range		
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		







ORDERING			PART NUMBER
PRODUCT	HATDDR	High Accuracy Rigid Duct Average Temperature Transmitter with Display	HATDDR
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	F G H	450mm (18") 600mm (24") 900mm (36")	
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.

