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HIGH ACCURACY TEMPERATURE TRANSMITTERS with LCD DISPLAY HATL Series

Precision temperature sensing/control

FEATURES:

- High Accuracy RTD sensing element
- Choice of scaled ranges and outputs
- LCD available in either °C or °F
- Hinged ABS weatherproof enclosure

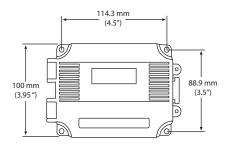
Peace of mind through reliable temperature monitoring

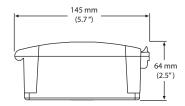
GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

SPECIFICATIONS:

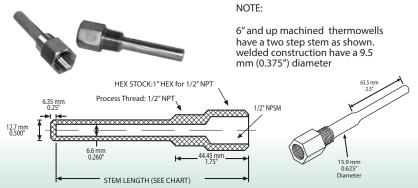
	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
Sensor Accuracy	
	RTD 1/3 DIN: ±0.1°C @ 0°C RTD 1/10 DIN: ±0.03°C @ 0°C
Transmitter Output Signal	-
	4-20mA current loop, 0-5 vdc, or 0-10 Vdc (factory configured)
	±0.25% of span, including linearity
Power Supply	4-20 mA: 15-35 Vdc or 22-32 Vac 0-5 Vdc: 10-35 Vdc or 10-32 Vac
	0-10 Vdc: 15-35 Vdc or 15-32 Vac
Consumption	
consumption	(On open sensor)
	Voltage: 5 mA nominal
Maximum Output (Voltage)	Limited to <5.5 Vdc for 0-5 Vdc, <10.5 for 0-10 vdc
	. Negligible over specified operating range
	Good RFI rejection of normal frequencies with standard installation
	Reverse voltage protected and output limited
	BM, CN, RP, SO, GL: -20 - 105°C (-4 - 221°F)
3 3	DC, DF, DR, RN, FL: -20 - 60°C (-4 - 140°F)
	OS: 0 - 70°C (32 - 158°F)
Ambient Operating Range	.0-70°C (32-158°F)
Operating Humidity	
	BM, CN, DR, FL, RN, RP: 6.35 mm (0.25") O.D., 304 series stainless steel
	DC: Soft copper
	GL, SO: Aluminum
Probe Dimension	BM, LC, DR, LR, RP: 6.35 mm (0.25") Diameter
	DC: 7.94 mm (0.3125") Diameter
	FL: 50.8 x 6.35 mm (2 x 0.25")
	GL: 9.525 x 9.525 x 31.75 mm (75" x .75" x 1.25")
	SO: 38.1 x 38.1 mm (1.5" x 1.5")
Wire Material	BM, CN, GL, RP, SO: PVC insulated, parallel bonded, 22 AWG
	DC, DF, FL, RN: FT-6 rated plenum cable, 22 AWG
	DR: Kynar, PVDF, 28 AWG
Wire Length	FL: 1.83 m (6')
	GL, RN, RP: 1.524 m (5')
Wiring Connections	Screw terminal block (14 to 22 AWG)
Enclosure	Hinged Weatherproof - Grey ABS - UL94-V0 - IP65 (NEMA 4X)
Display Units	°C or °F (factory configured)
Display Range	. 3 Digit for -88.8 to 888 as necessary
Display Size	.24 mm x 11 mm (0.95″ x 0.45″), three digit.

ENCLOSURE DIMENSIONS:





THERMOWELLS:



THERMOWELL PART NUMBERING SYSTEM

SERIES NUMBER	NPT THREAD SIZE	MATERIAL	STEM LENGTH	CONSTRUCTION
T1	1/2"	P - 304 SS R - 316 SS	2" 4" 6" 8" 12" 18"	- MACHINED W - WELDED (12″ and up only)

EXAMPLE: T1 1/2 P 4

4" 304 STAINLESS THERMOWELL WITH 1/2" NPT PROCESS THREAD





PRODUCT ORDERING INFORMATION:

MODEL Product Description								
HATL High Accuracy Temperature Transmitter with and LCD display								
	CODE BM DC DF DR CN RN RP SO OS FL GL	Mounting Style Duct Duct average, copper probe Duct average, flexible cable Duct average, rigid stainless steel probe Immersion, Nylon Fitting, 1/2" NPT Immersion w/Remote Probe, Nylon Fitting, 1/2" NPT Strap-on - Remote Probe Strap-on - Remote Probe Strap-on - Assembly clamps around pipe with aluminum plate c/w 254 mm (10") stainless clamp Heavy Duty Room Flying lead Glass						
		CODE C F	LCD Dis LCD dis LCD dis CODE 18 48 22	olay °C olay °F Sensor 1000 Ω 1000 Ω	Platinun	n, IEC 751	, 385 Alpha, thin film, Class A , 385 Alpha, thin film, 1/3 DIN , 385 Alpha, thin film, 1/10 DIN	
				CODE A B C D E F G H I J K L	Probe L 50 mm (; 100 mm 150 mm 200 mm 300 mm 450 mm 900 mm 1800 mm 3600 mm 1800 mm 100 mm 3600 mm 3600 mm 3600 mm 3600 mm 3600 mm	2") (4") (6") (12") (12") (24") (36") n (6') n (12') n (20')	Lengths are applicable BM, RP, RN & CN BM, RP, RN & CN BM, RP, RN & CN BM, RP, RN & CN BM BM, DR DR DR DR DC, DF DC, DF DC, DF DC, DF	to these Mounting Styles OMIT FOR SO, OS, FL & GL
	V		V		CODE A D E	Output 4-20 mA 0-5 Vdc 0-10 Vdc CODE 1 2 3		
HATL	BM	С	18	E	А	2		



FEATURES:

The HATL series temperature transmitters offer a platinum RTD's with transmitter which can be interfaced with a computerized monitoring or control system. Each model incorporates a LCD in either °C or °F. A wide variety of configurations are available such as:



CN) Immersion Sensor – The CN single point immersion temperature transmitter incorporates a high accuracy platinum RTD encapsulated in a 6.35 mm (0.25") OD, 304 stainless steel probe.



DF, D, DC & DR) Duct Averaging Sensor - The DF, D, DC & DR models incorporate numerous sensors along the assembly and act as a single sensor averaging the temperature across the sensors. The DC is a continuous sensing element that senses a temperature change allong the entire proble length. They are available in various lengths. The DF probe is constructed of FT-6 rated plenum cable which allows for easy installation. The D & DC probes are constructed of bendable soft copper and the DR is a constructed of rigid stainless steel.



RP & SO) Strap-on Sensor – The RP single point strap-on temperature transmitter incorporates a high accuracy platinum RTD encapsulated in a 6.35 mm (0.25") OD, 304 stainless steel probe. The SO single point strap-on temperature sensor has a high accuracy platinum RTD bonded to a 38.1 mm x 38.1 mm (1.5" x 1.5") aluminum plate and adhered to a 1" compressible foam.

RP)

OS) Heavy Duty Room Sensor - The OS single point wall temperature sensor utilizes a high accuracy platinum RTD sensor. The probe is constructed to provide excellent heat transfer, fast response and is potted to resist moisture penetration.



FL) Flying Lead - The FL comes with a 2" stainless steel probe and 1.8 m (6') of FT6 plenum rated cable for remote mounting.



GL) Glass - The GL single point glass temperature sensor utilizes a high accuracy sensor encapsulated in a 31.75mm L x 9.525mm W x 9.525 mm H (1.25" x .375" x .375") Aluminum probe. Standard wire length is 600 mm (24").







REYSTO

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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems. We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability. 07/17

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