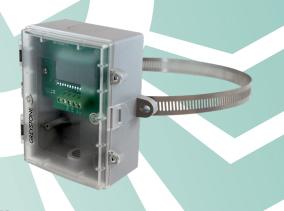


HIGH ACCURACY STRAP-ON TEMPERATURE TRANSMITTER with LCD **HATDSO Series**

The high accuracy single point strap-on temperature transmitter has a precision platinum RTD bonded to a 38.1 mm x 38.1 mm (1.5" x 1.5") aluminum plate and adhered to a 25.4 mm (1") compressible foam. A 25.4 cm (10") S/S Pipe clamp is provided to secure the assembly to various sizes of pipes. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. A weatherproof Polycarbonate enclosure with a hinged and gasketed cover is provided for ease of installation. An LCD is provided in either °C or °F.



SPECIFICATIONS:

Sensor Type:	1000 ohm platinum RTD
Sensor Accuracy:	RTD Class A: ±0.15°C @ 0°C
	RTD 1/3 DIN: ±0.1°C @ 0°C
	RTD 1/10 DIN: ±0.03°C @ 0°C
Wire Material:	PVC insulated, parallel bonded, 22 AWG
Probe Sensing Range:	20 to 105°C (-4 to 221°F)
Probe Material:	Aluminum plate
Probe Size:	2" x "2 square
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 to 30 Vdc, 12 to 28 Vac
Consumption (max):	20 mA for current, 11 mA for voltage
Protection Circuitry:	Reverse voltage protected and output limited
Ouput Drive @ 24 Vdc:	700 ohms max for current output,
	20K ohms min for voltage output
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 16.5 mm H (1.5" to 0.65")
Digit Height:	11.4 mm (0.45") plus °C/°F symbol
Ambient Operating Range:	0 to 50°C (32 to 122°F), 0-95 %RH
Enclosure:	Grey polycarbonate UL94-V0, IP65 (NEMA 4X)
Wiring Connections:	Screw terminal block (14 to 22 AWG)
Country of Origin:	Canada

TYPICAL INSTALLATION:

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

For best results, thermal conductive compound should be applied to pipe prior to mounting the probe.

Find a suitable location along the pipe where both the probe and remote enclosure can be mounted. If necessary, remove a section of insulation from pipe. Position probe directly on the pipe and secure using a pipe clamp. For added security, make 1 to 3 loops of the sensor cable around the pipe and feed through wire hole on the enclosure and secure using the supplied grommet. If applicable, the pipe insulation can be re-applied to the pipe over the probe.

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

RODUCT SELECTION IN ORMATION.												
МО	DEL	Produc	Product Description									
HAT	DSO	High Ac	curacy St	racy Strap-on Temperature Transmitter with Display								
	CODE Enclosure											
		B F		Polycarbonate, with hinged & gasketed cover Same as B, with thread adapter & cable gland fitting								
CODE Display Units C Celsius F Fahrenheit												
CODE Sensor												
					4	8 8 2	1000 Ω , Platinum, wire 2, 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					
							CODE	Output				
			A D E	0-5 Vdc 3	4-20 mA 2 or 3 wire 0-5 Vdc 3 wire 0-10 Vdc 3 wire							
								CODE	Scaled Range			
								001 002	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F)			
•	,	<u> </u>		<u> </u>	•	,	<u> </u>	+				

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



Wiring:

Terminal Function COM TEMP (2)

Power Supply Power Supply Common Temperature Sensor Input

NO Relay Output - Normally Open Contact COM

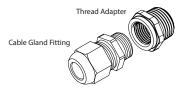
Relay Common Relay Output - Normally Closed Contact

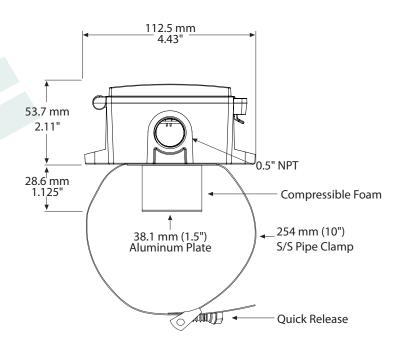














GREYSTONE

ENERGY SYSTEMS INC

Greystone Energy Systems, Inc. 150 English Drive, Moncton, New Brunswick, Canada E1E 4G7

(506) 853-3057 Fax: (506) 853-6014 North America: 1-800-561-5611 e-mail: mail@greystoneenergy.com www.greystoneenergy.com









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

edge 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.