GREYSTONE ENERGY SYSTEMS INC

HIGH ACCURACY IMMERSION TEMPERATURE SENSOR HATSC Series

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The HATSC series single point immersion temperature sensor utilizes a high accuracy sensor encapsulated in a 6.35 mm (0.25") OD, 304 series stainless steel probe and is available in various lengths. All probes provide excellent heat transfer, fast response and resistance to moisture penetration. It is available with a variety of enclosures.

SPECIFICATION:

Sensor Type Platinum RTD 1000 Ω, 385 Alpha @ 0°C
NTC Thermistor, 10,000 Ω @ 25°C, Type 2 or 3
NTC Thermistor, 20,000 Ω @ 25°
Temperature Range20 to 105 °C (-4 to 221 °F)
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
NTC Thermistor Type 39 : ±0.05°C, 0-70°C
NTC Thermistor Type 55 : ±0.03°C, 0-70°C
NTC Thermistor Type 40/46 : ±0.1°C, 0-70°C

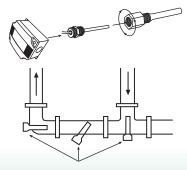
Wire Material	PVC insulated, parallel bonded
Probe Material	304 Series Stainless Steel
Probe Dimensions	0.25″ (6.35 mm) Diameter
Enclosure	Round (E) - Grey ABS - UL94-VO - IP65 (NEMA 4X) Weatherproof PVC (P) - IP65 (NEMA 4X))
Termination	Pigtail 2 or 3 wire

TYPICAL INSTALLATION:

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

NOTE: All immersion sensors require a thermowell (sold separately)

The immersion type probes are installed in the appropriate length thermowell for the pipe size. Thermal conductive compound should be added inside the thermowell to provide optimum thermal transfer.



Thermowell placement in pipe



PRODUCT SELECTION INFORMATION:

CODE	Product	Descriptio

HATSCN High Accuracy Immersion Temperature Sensor w/ 1/2" NPT Nylon Fitting

	со	DE	Enclosure		
E Round ABS, with gasket coverP PVC Weatherproof			. 5		
			CODE	Contract	
			CODE	Sensor	
			18	1000 Ω Platinum, 2 Wire, IEC 751, 385 Alpha, thin film, Class A	
			48	1000 Ω $$ Platinum, 2 Wire, IEC 751, 385 Alpha, thin film, 1/3 DIN $$	
			22	1000 Ω Platinum, 2 Wire, IEC 751, 385 Alpha, thin film, 1/10 DIN	

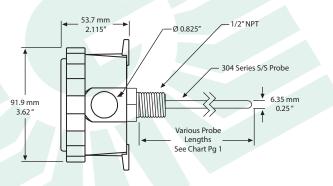
46 20,000 Ω, NTC Thermistor, ±0.1 C CODE Probe Length A 50 mm (2") B 100 mm (4") C 150 mm (6") D 200 mm (8")	39 55 40	1000 Ω Platinum, 3 Wire, IEC 751, 385 Alpha, thin film, Class A 1000 Ω Platinum, 3 Wire, IEC 751, 385 Alpha, thin film, 1/3 DIN 1000 Ω Platinum, 3 Wire, IEC 751, 385 Alpha, thin film, 1/10 DIN 10,000 Ω, Type 2, NTC Thermistor, ±0.05 C 10,000 Ω, Type 2, NTC Thermistor, ±0.03 C 10,000 Ω, Type 3, NTC Thermistor, ±0.1 C		
A 50 mm (2") B 100 mm (4") C 150 mm (6")	46	20,000 Ω, N	ITC Thermistor, ±0.1 C	
B 100 mm (4") C 150 mm (6")		CODE	Probe Length	
C 150 mm (6")		Α	50 mm (2″)	
			100 mm (4″)	
D 200 mm (8")		-	150 mm (6″)	
		D	200 mm (8")	

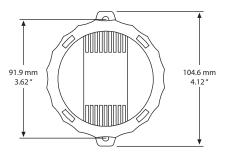


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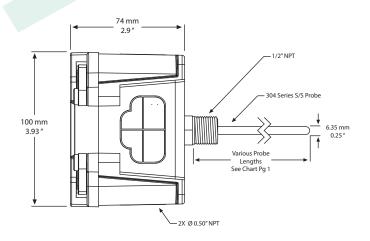
DIMENSIONS:

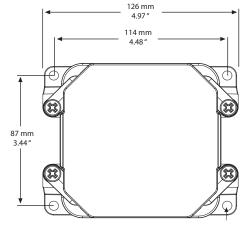
Round ABS Enclosure (E)





PVC Enclosure (P)





Mounting Holes (X4) 6mm Ø 0.24"

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



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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. 10/17

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM