

HIGH ACCURACY ALL PURPOSE **TEMPERATURE SENSOR TSAP Series**

The high accuracy all purpose single point temperature sensor utilizes a precision sensor encapsulated in a 6 mm (0.236") OD, 304 series stainless steel probe and is available in various lengths (see ordering chart). All probes provide excellent heat transfer, fast response and resistance to moisture penetration.

SPECIFICATION:

Sensor TypeV	arious Thermistor or RTD
Sensor AccuracyR	TD Class A: ±0.15°C @ 0°C
R	TD 1/3 DIN: ±0.1°C @ 0°C
R	TD 1/10 DIN: ±0.03°C @ 0°C
N	ITC Thermistor Type 39: ±0.05°C, 0 to 70°C
N	ITC Thermistor Type 55: ±0.03°C, 0 to 70°C
N	ITC Thermistor Type 40/46: ±0.1°C, 0 to 70°C
Temperature Range 2	20 to 105°C (-4 to 221°F)
Wire MaterialP	VC insulated, parallel bonded, 22 AWG
Probe Material 3	04 Series stainless steel
Probe Diameter6	mm (0.236")
Standard Lengths 50	0, 100, 150, 200, 300, and 400 mm
(2	2", 4", 6", 8", 12", and 18")
EnclosureA	BS - UL94-V0, IP65 (NEMA4X)
C	- includes terminal block
E	- includes thread adapter (1/2" NPT to M16),
Ca	able gland fitting, and terminal block
Termination A	- pigtail, 2 or 3 wire
C	& E - terminal block, 2 or 3 wire
Country of Origin C	anada

TYPICAL INSTALLATION:

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

In duct applications the probes are installed in the side of the duct to monitor a single point temperature within the duct. Select a probe length that allows the probe to span the duct width. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

For immersion applications the 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.

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



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION

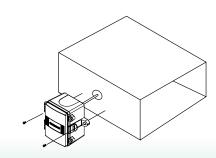
MODEL	Product Description	
HATSAP	High Accuracy All Purpose Duct/Immersion Temperature Sensor	

CODE	Enclosure
A C E	ABS, with hinged & gasketed cover Same as A, with terminal block Same as C, with thread adapter and cable gland fitting

	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
	41	1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, Class A
	49	1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/3 DIN
	50	1000 Ω Platinum, 3 wire, IEC 751, 385 Alpha, thin film, 1/10 DIN
	39	10,000 Ω Type 2, NTC Thermistor, ±0.05°C
	55	10,000 Ω Type 2, NTC Thermistor, ±0.03°C
	40	10,000 Ω Type 3, NTC Thermistor, ±0.1°C
	46	20,000 Ω, NTC Thermistor, ±0.1°C
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CODE	Probe Length
Α	50 mm (2")
В	100 mm (4")
С	150 mm (6")
D	200 mm (8")
E	300 mm (12")
F	450 mm (18")
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

















Thread Adapter

10/18

PS-HATSAPXXX-01-01



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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.