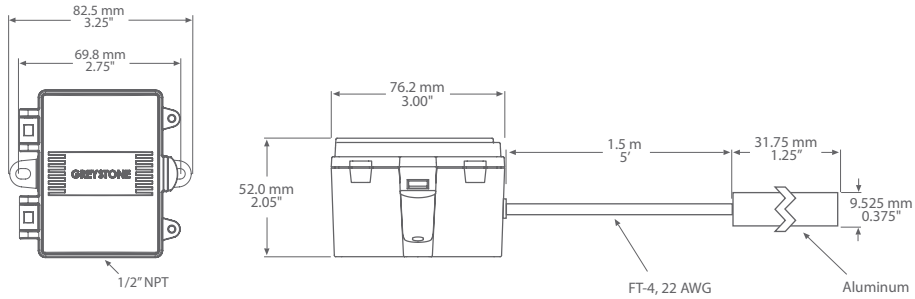
GREYSTONE
ENERGY SYSTEMS INC

HIGH ACCURACY GLASS TEMPERATURE TRANSMITTER





HATXGL SERIES

PRODUCT DESCRIPTION

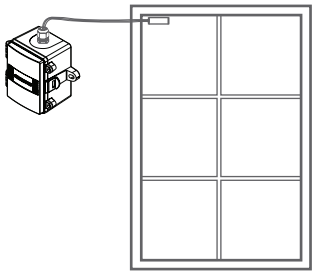
The high accuracy single point glass temperature transmitter utilizes a precision sensor encapsulated in a 31.75mm L x 9.525mm W x 9.525 mm H (1.25" x .375" x .375") Aluminum probe. Standard wire length is 1.524m (5'). All probes are constructed to provide excellent heat transfer, fast response, and are potted to resist moisture penetration. It is available with a variety of enclosures. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is available with various ranges.

TYPICAL INSTALLATION

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

Find a suitable location on an exterior window where both the probe and enclosure can be mounted. On one side apply epoxy compound and press firmly against the glass. Hold in place until the epoxy has set.

Encloure provides mounting tabs for ease of installation.

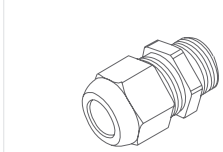


SPECIFICATIONS

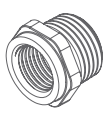
SENSOR TYPE	1000Ω Platinum, IEC 751, 385 Alpha, thin film
SENSOR ACCURACY	**RTD Class A:** ±0.15°C (±0.27°F) @ 0°C (32°F) **RTD 1/3 DIN:** ±0.1°C (±0.18°F) @ 0°C (32°F) **RTD 1/10 DIN:** ±0.03°C (±0.054°F) @ 0°C (32°F)
PROBE SENSING RANGE	-20 to 100°C (-4 to 212°F)
WIRE MATERIAL	FT-4, 22 AWG
WIRE LENGTH	1.524m (5')
PROBE MATERIAL	Aluminum
PROBE DIMENSIONS	31.75mm L x 9.525mm W x 9.525mm H (1.25" x 0.375" x 0.375")
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured)
TRANSMITTER ACCURACY	±0.1% of span, including linearity
OUTPUT DRIVE @ 24 VDC	**Current:** 600Ω maximum **Voltage:** 10 KΩ minimum
POWER SUPPLY	**0-5 Vdc:** 10-35 Vdc or 10-28 Vac **0-10 Vdc:** 15-35 Vdc or 15-28 Vac **4-20 mA:** 15-35 Vdc (Loop-powered) or 22-28 Vac
CURRENT CONSUMPTION	**Current:** 20 mA **Voltage:** 5 mA
MAXIMUM CURRENT (VOLTAGE)	5 mA nominal
MAXIMUM OUTPUT (VOLTAGE)	Limited to <5.5 vdc for 0-5 Vdc, <10.5 for 0-10 Vdc
INPUT VOLTAGE EFFECT	Negligible over specified operating range
PROTECTION CIRCUITRY	Reverse voltage protected and output limited
AMBIENT OPERATING RANGE	-40 to 50°C (-40 to 122°F), 0 to 95 %RH non-condensing
ENCLOSURE	**A:** ABS, UL94-V0, IP65 (NEMA 4X) **E:** Same as A, with thread adapter (1/2" NPT to M16) and cable gland fitting
TERMINATION	Terminal block (14 to 22 AWG)
COUNTRY OF ORIGIN	Canada

NOTE: This product is factory calibrated and any field adjustment will void the warranty.

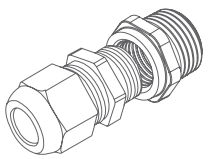
ACCESSORIES - INCLUDED WITH E ENCLOSURE OPTION



CABLE GLAND FITTING

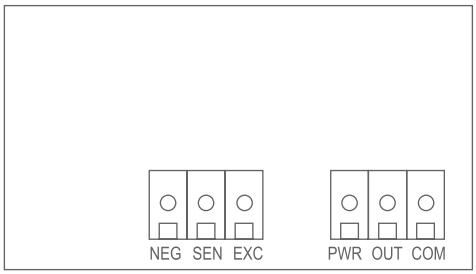


THREAD ADAPTER 1/2" NPT TO M16



GREYSTONE
ENERGY SYSTEMS INC

WIRING INFORMATION



TERMINAL	FUNCTION
PWR	Power Supply
OUT	Analog Output
COM	Common
NEG	
SEN	Temperature Sensor Input
EXC	

ORDERING

PRODUCT	**HATXGL**	High Accuracy Glass Temperature Transmitter
ENCLOSURE	**A** **E**	ABS, with hinged and gasketed cover Same as A, with thread adapter (1/2" NPT to M16) and cable gland fitting
SENSOR	**18X** **48X** **22X**	1000 Ω Platinum, IEC 751, 385 Alpha, thin film, Class A 1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/3 DIN 1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/10 DIN
OUTPUT	**A** **D** **E**	4-20mA 0-5 Vdc 0-10 Vdc
SCALED RANGE	**001** **002** **003** *	0 to 35°C (32 to 95°F) 0 to 50°C (32 to 122°F) 0 to 100°C (32 to 212°F) Additional ranges available

PART NUMBER

HATXGL

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

RoHS COMPLIANT

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

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

Copyright © Greystone Energy Systems Inc. All Rights Reserved