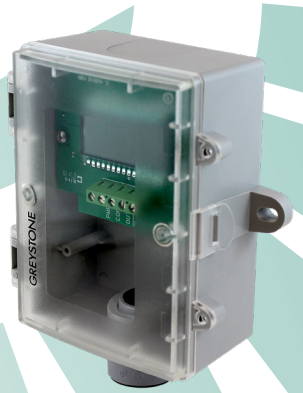
GREYSTONE
ENERGY SYSTEMS INC

HIGH ACCURACY HEAVY DUTY ROOM TEMPERATURETRANSMITTER with LCD
HATDHR Series

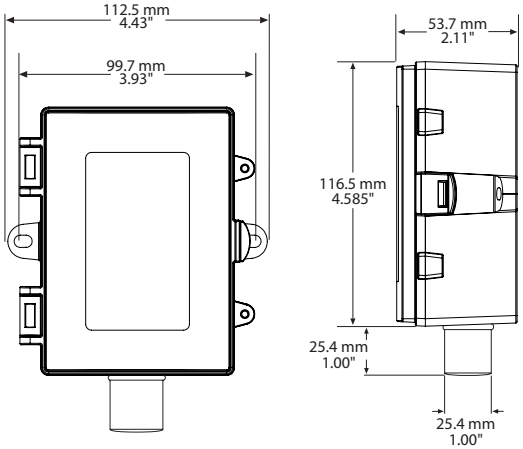
The high accuracy heavy duty room temperature transmitter incorporates a precision platinum RTD to monitor indoor temperature levels. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is available with various ranges. A polycarbonate 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:.....-40 to 50°C (-40 to 122°F)
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

DIMENSIONS:



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
HATDHR	Heavy Duty Room Temperature Transmitter with LCD Display

CODE	Enclosure
B	Polycarbonate, with hinged & gasketed cover

CODE	Display Units
C	Celsius
F	Fahrenheit

CODE	Sensor
18	1000 Ω, Platinum, wire 2, 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

CODE	Output
A	4-20 mA 2 or 3 wire
D	0-5 Vdc 3 wire
E	0-10 Vdc 3 wire

CODE	Scaled Range
001	0 to 35°C (32 to 95°F)
002	0 to 50°C (32 to 122°F)

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

TYPICAL INSTALLATION:

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

The heavy duty room temperature transmitter should be mounted on an interior wall that will provide protection from direct sunlight.

The heavy duty room temperature sensor can be mounted directly to the wall face using the provided mounting holes. There is one 0.85" hole for conduit connection.

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RoHS COMPLIANT

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