



GREYSTONE

ENERGY SYSTEMS INC

HIGH ACCURACY DUCT TEMPERATURE TRANSMITTER WITH LCD HATLBM Series

The HATLBM single point duct temperature transmitter incorporates a high accuracy platinum RTD encapsulated in a 6.35 mm (0.25") OD, 304 stainless steel probe and is available in various lengths. All probes provide excellent heat transfer, fast response and resist moisture penetration. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is available with various ranges. A LCD is provided in either °C or °F.



SPECIFICATION:

Sensor.....1000 ohm Platinum RTD
Accuracy.....**RTD Class A:** $\pm 0.15^{\circ}\text{C}$ @ 0°C
RTD 1/3 DIN: $\pm 0.1^{\circ}\text{C}$ @ 0°C
RTD 1/10 DIN: $\pm 0.03^{\circ}\text{C}$ @ 0°C
Probe Sensing Range.....-20 to 105°C (-4 to 221°F)
Wire Material.....PVC insulated, parallel bonded
Probe Material.....304 Series Stainless Steel
Probe Dimension.....6.35 mm (0.25") Diameter
Output Signal.....4-20mA current loop, 0-5 vdc,
or 0-10 Vdc (factory configured)
Transmitter Accuracy..... $\pm 0.25\%$ of span, including
linearity
Power Supply.....**4-20 mA:** 15-35 Vdc or 22-32 Vac
0-5 Vdc: 10-35 Vdc or 10-32 Vac
0-10 Vdc: 15-35 Vdc or 15-32 Vac
Consumption.....**Current:** 22.5 mA Max
(On open sensor)
Voltage: 5 mA nominal
Input Voltage Effect.....Negligible over specified
operating range
RFI rejection.....Good RFI rejection of normal
frequencies
Protection Circuitry.....Reverse voltage protected
and output limited
Display Units..... $^{\circ}\text{C}$ or $^{\circ}\text{F}$ (factory configured)
Display Range.....3 digit for -88.8 to 888 as
necessary
Display Size.....24 mm x 11 mm
0.95" x 0.45"
Ambient Operating Range.....0 - 70°C (32 - 158°F),
0 - 95% RH non-condensing
Enclosure.....Grey ABS, UL94-V0, IP65 (NEMA 4X)
Wiring Connections.....Screw terminal block
(14 to 22 AWG)

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
HATLBM	High Accuracy Duct Temperature Transmitter with LCD Display

CODE	LCD Display
C	Celcius
F	Fahrenheit

CODE	Sensor
18	1000 Ω Platinum, IEC 751, 385 Alpha, thin film, Class A
22	1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/10 DIN
48	1000 Ω Platinum, IEC 751, 385 Alpha, thin film, 1/3 DIN

CODE	Probe Length
A	50 mm (2")
B	100 mm (4")
C	150 mm (6")
D	200 mm (8")
E	300 mm (12")
F	450 mm (18")

CODE	Output
A	4-20 mA
D	0-5 Vdc
E	0-10 Vdc

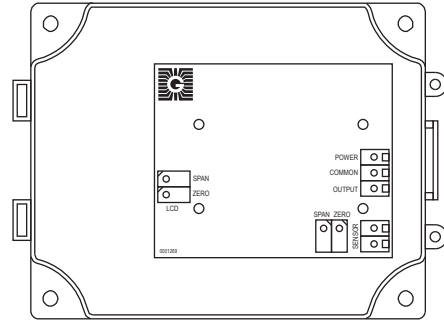
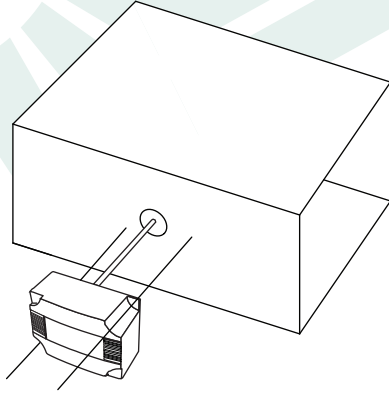
CODE	Output
1	0-35 $^{\circ}\text{C}$ (32-95 $^{\circ}\text{F}$)
2	0-50 $^{\circ}\text{C}$ (32-122 $^{\circ}\text{F}$)
3	0-100 $^{\circ}\text{C}$ (32-212 $^{\circ}\text{F}$)
*	Custom Ranges Available

TYPICAL INSTALLATION:

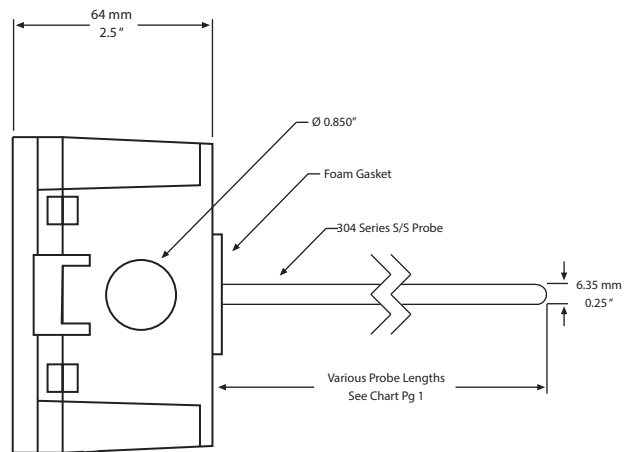
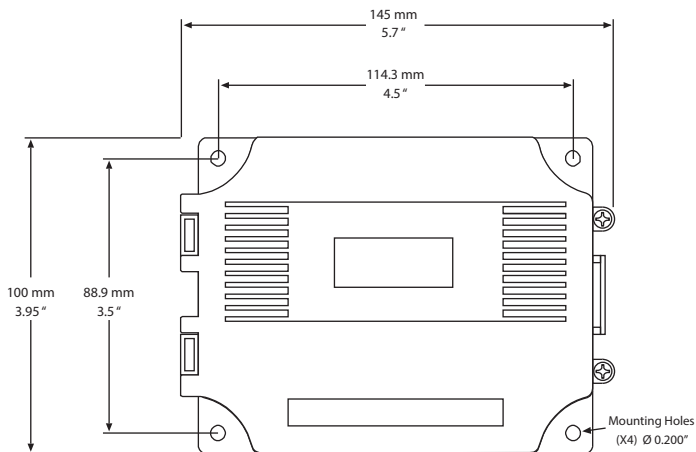
For complete installation and wiring details, please refer to the product installation instructions.

The duct type probes are installed through a hole in the side of the duct to monitor a single point temperature within the duct. Since the probes are tip sensitive, select a probe length that places the sensor well into the duct. Install the probe in a straight section of duct at a suitable distance downstream from any heating, cooling or humidification devices.

Each enclosure style provides mounting tabs on the outside for ease of installation.



DIMENSIONS:



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



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

RoHS
COMPLIANT



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 leading-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.

GREYSTONE HAS AN **ISO 9001** REGISTERED QUALITY SYSTEM