GREYSTONE
ENERGY SYSTEMS INC

HIGH ACCURACY STRAP-ON TEMPERATURE TRANSMITTER WITH LCD
HATLRP Series

The HATLRP single point strap-on 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 for measurement of pipe temperatures. A LCD is provided in either °C or °F.

DISCONTINUED

SPECIFICATION:

Sensor	1000 ohm Platinum RTD
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
Probe Sensing Range	-20 to 105˚C (-4 to 221˚F)
Wire Material	PVC insulated, parallel bonded
Wire Length	1.524 m (5')
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	±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	˚C or ˚F
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
HATLRP	High Accuracy Strap-on Temperature Transmitter with LCD Display

CODE	LCD Display
C	LCD display ˚C
F	LCD display ˚F

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")

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

CODE	Scaled Range
1	0 - 35˚C (32 - 95˚F)
2	0 - 50˚C (32 - 122˚F)
3	0 - 100˚C (32 - 212˚F)

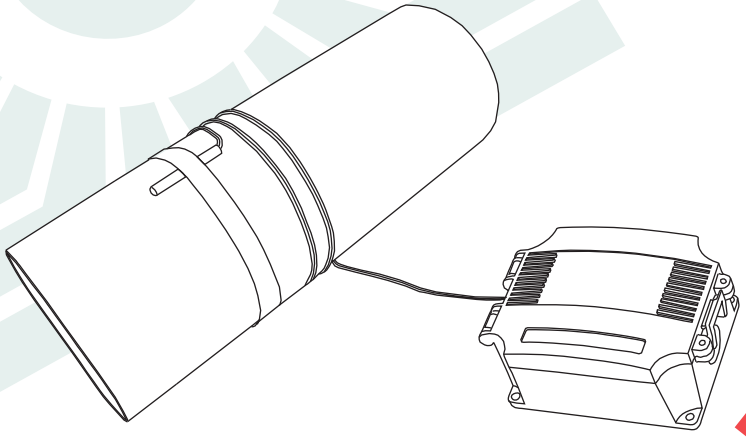
RoHS COMPLIANT

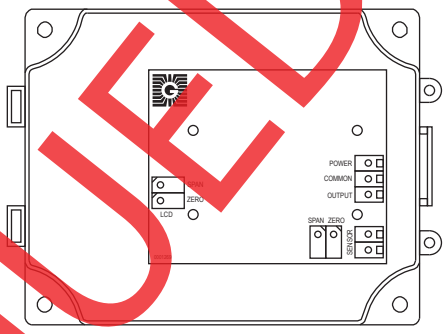
TYPICAL INSTALLATION:

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

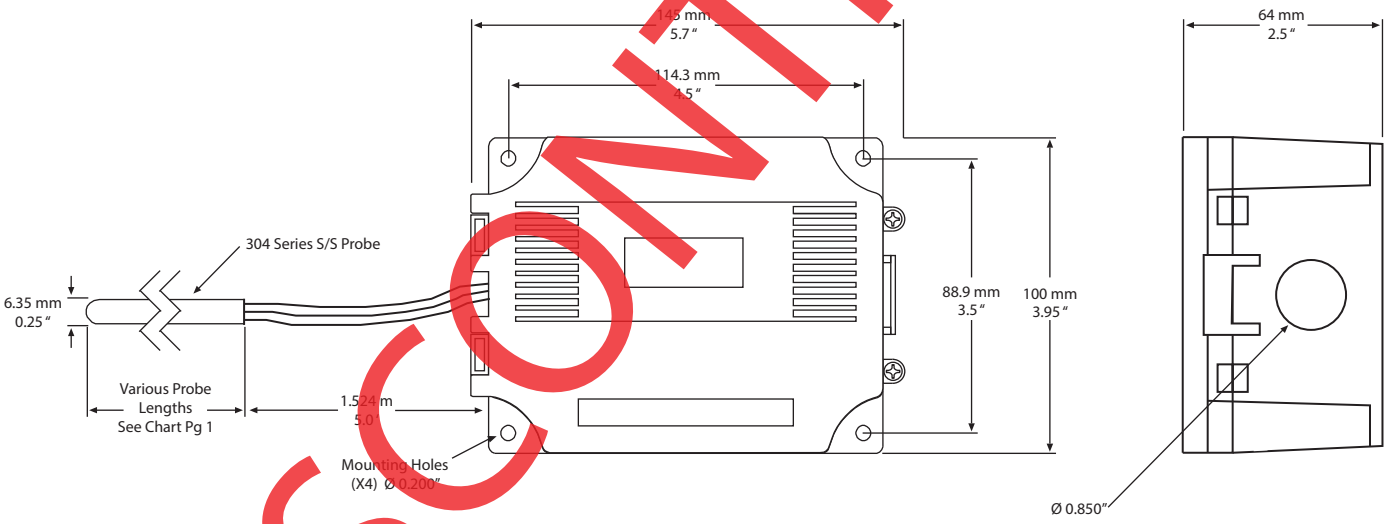
For best results, thermal conductive compound should be applied to pipe prior to mounting the probe.

Find a suitable location along the pipe where both the probe and remote enclosure can be mounted. If necessary, remove a section of insulation from pipe. Position probe directly on the pipe and secure using a pipe clamp. For added security, make 1-3 loops of the sensor cable around the pipe and feed through wire hole on the enclosure and secure using the supplied grommet. If necessary, the pipe insulation can be re-applied to the pipe over the probe.





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

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