



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.



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
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 $\pm 0.25\%$ 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 °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)



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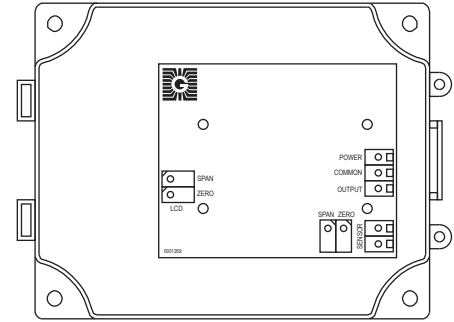
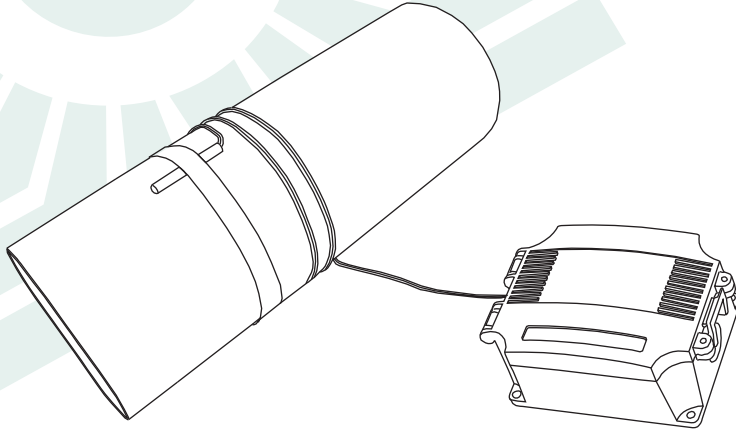


TYPICAL INSTALLATION:

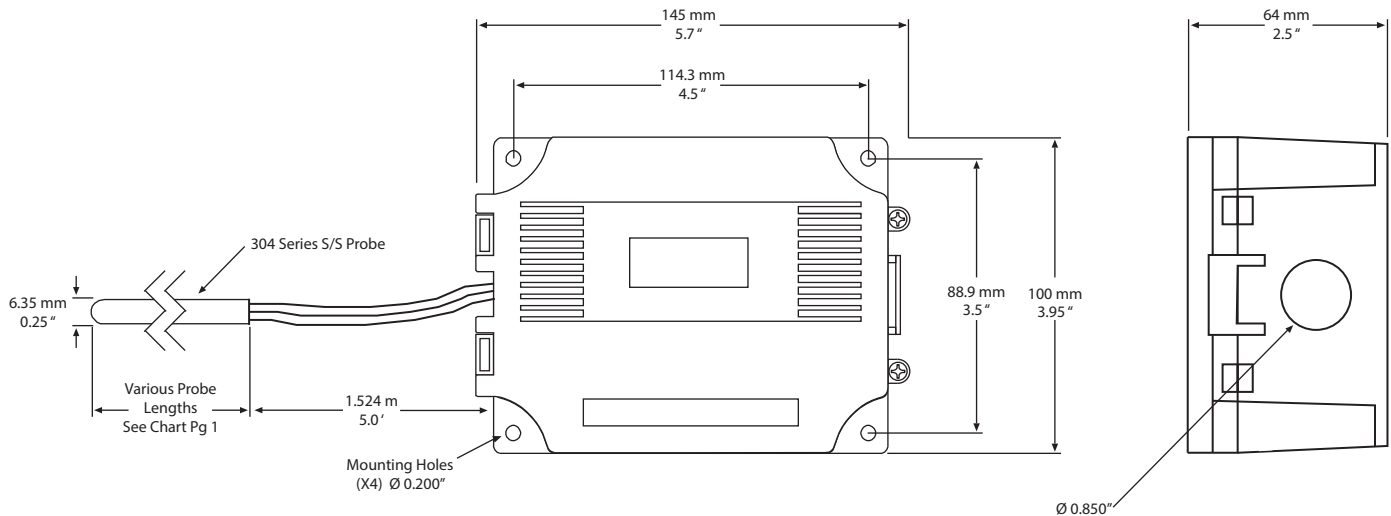
For complete installation and wiring details, please refer to the product installation instructions.

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.



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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 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