



GREYSTONE

ENERGY SYSTEMS INC

RIGID DUCT AVERAGE TEMPERATURE TRANSMITTER w/ LCD TE511/512DR Series

The TE511/512DR multi-point rigid duct average temperature transmitter incorporates four precision platinum RTD's encapsulated in a 6.35 mm (0.25") OD, 304 stainless steel probe and is available in various lengths (see ordering chart) 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. (See ordering chart) A LCD is provided in either °C (511) or °F (512).



SPECIFICATION:

Sensor.....	1000 ohm Platinum RTD
Sensor Accuracy.....	±0.3°C (±0.54°F) @ 0°C (32°F)
Probe Sensing Range.....	-20 to 60°C (-4 to 140°F)
Wire Material.....	FT6 Plenum rated
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	±0.1% 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 (511 Series) or °F (512 Series)
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.....	ABS, UL94-5VB, IP65 (NEMA 4X) *In order to maintain the published NEMA/IP ratings, properly rated conduit or cable gland adapters must be used.
Wiring Connections.....	Screw terminal block (14 to 22 AWG)

PART NUMBER SELECTED

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PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE511DR	Rigid Duct Average Temperature Transmitter c/w LCD display °C
TE512DR	Rigid Duct Average Temperature Transmitter c/w LCD display °F

CODE	Probe Length
K2	450 mm (18")
L2	600 mm (24")
M2	900 mm (36")

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

CODE	Scaled Range
1	0 - 35°C (32 - 95°F)
2	0 - 50°C (32 - 122°F)
*	Custom ranges available Contact Greystone

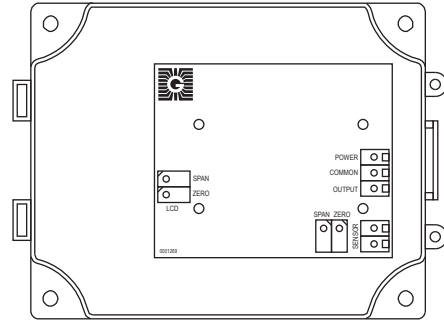
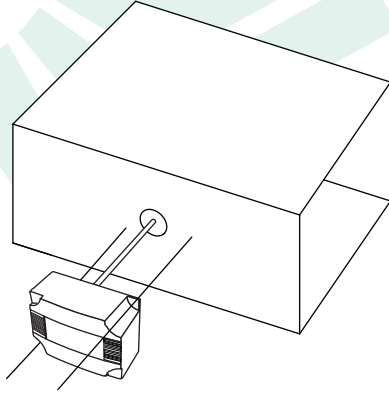
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TYPICAL INSTALLATION:

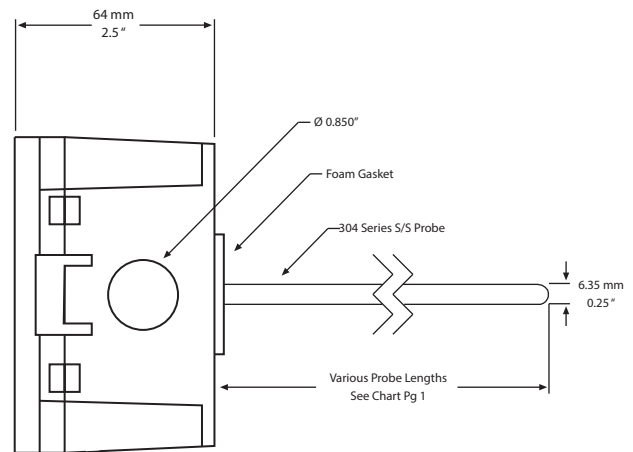
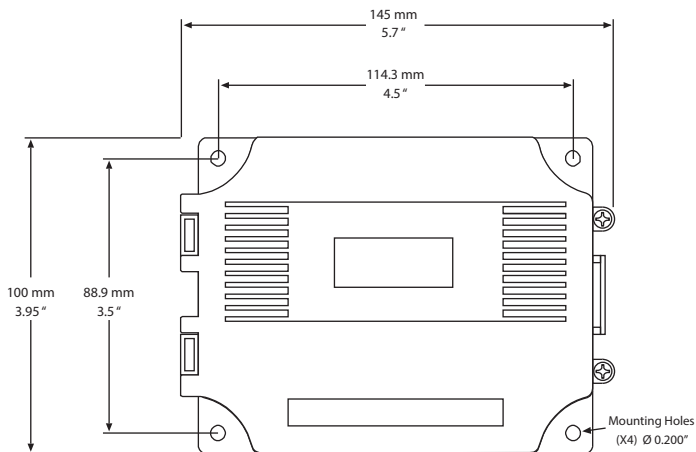
For complete installation and wiring details, please refer to the product installation instructions.

The rigid duct average type probes are installed through a hole in the side of the duct to monitor and provide an average temperature within the duct. Select a probe length that allows the probe to span the width of 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 or holes for ease of installation.



DIMENSIONS:



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



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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 transducers 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