



HEAVY DUTY WALL TEMPERATURE TRANSMITTER

TE511/512F Series



The TE511/512F single point wall temperature sensor utilizes a precision platinum RTD sensor. The probe is constructed to provide excellent heat transfer, fast response and is potted to resist moisture penetration. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response and is available with various ranges. (See ordering chart). A heavy duty ABS enclosure with hinged cover is provided. 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.....	0 to 70°C (32 to 158°F)
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 0-10Vdc: 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 Connection.....	Screw terminal block (14 to 22 AWG)

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TE511F	Heavy Duty Space Temperature Transmitter w/ LCD °C
TE512F	Heavy Duty Space Temperature Transmitter w/ LCD °F

CODE	Output
A	4-20 mA
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)
*	Custom ranges available, please contact Greystone

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 TE511/512F can be mounted on any wall away from direct sunlight or heating/air conditioning sources. Mount with the sensing probe pointing towards the floor.

It can be mounted directly to a wall face using the 4 provided mounting holes. There is one 0.85" holes for conduit or cable gland connection.

DIMENSIONS:

