GREYSTONE

ENERGY SYSTEMS INC

Precision temperature control/sensing

FEATURES:

- Precision Thermistor or RTD sensing elements
- Various enclosure styles
- Various options: Setpoint Adjustment, Override, etc.
- Custom laser etching available

Peace of mind through reliable temperature monitoring

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

DESCRIPTION:

The TE200 series of room temperature sensors incorporate a precision platinum RTD or NTC thermistor in an attractive wall mount enclosure for the most efficient environmental monitoring and control systems.

The TE200 series is available in three different enclosures and has various options available such as setpoint adjustment, manual override, etc. that allows for use in a multitude of applications.

SPECIFICATIONS:

Sensor...Several available - See Ordering Information
Sensor Accuracy..............................Thermistors: ±0.2˚C (±0.36˚F) - 0 to 70˚C (32 to 158˚F)
 Platinum RTD's: ±0.3˚C (±0.54˚F) @ 0˚C (32˚F)
 Nickel RTD's: ±0.4˚C (±0.72˚F) @ 0˚C (32˚F)
Operating Temperature ....**A & AD:** 0 - 50˚C (32 - 122˚F) **AS:** -20 - 50˚C (-4 - 122˚F)
Enclosures ....A - White ABS - IP20 (NEMA 1)
 AD - White ABS - IP20 (NEMA 1)
 AS - Stainless Steel - IP50 (NEMA 1)
Wiring Connections.......................Sensor only - Pigtail, 2 or 3 wire
 With Options - Screw terminal block (14 to 22 AWG)

OPTIONS:

Setpoint Adjustment
Standard ....20K to 30K Ω linear slidepot
Custom spans available ....1K, 2K, 5K, 10K or 20K Ω

Manual Override
Concealed ....Momentary pushbutton, N.O., SPST, 50 mA @12 Vdc **AD only**
Exposed ....Momentary pushbutton, N.O., SPST, 50 mA @12 Vdc
Grayhill Exposed ....Momentary pushbutton, N.O., SPST, 3A @ 115 Vac **AS only**

Status Indicator
LED..Yellow (LY), Red (LR) or Green (LG), Various voltage models available.

Communication Jacks
Phono ....3.5 mm phono jack, 3 wire connection (Ring, Tip, Mid)
4 pin ....4 Pin header. Requires HHTA - Hand Held Adapter

Miscellaneous
Tamperproof Screws ....18-8 SS, Tamper-Resist, Flat Head, Machine Screw, Drilled
 Spanner, 6-32 Thread, 1" Length **AS Only**

AD) Designer – Features include a two-piece enclosure that mounts directly to a wall box or on any wall. Available with various options, including setpoint adjustments, & push button overrides.

AS) Surface - A stainless steel plate which can be mounted to a wall box used where tamper-proof or protection is required. Available with various options, including push button overrides and or LED's.

A) Micro – Includes a compact snap-mounted cover for ease of installation, available with various temperature sensors.

GREYSTONE ENERGY SYSTEMS, INC.

RoHS COMPLIANT

TE200 - ROOM TEMPERATURE SENSOR:

PRODUCT ORDERING INFORMATION:

MODEL	Product Description
TE200	Temperature Sensor Series

CODE	Enclosure
A	Micro
AD	Designer
AS	S/S plate

| CODE	Sensor
2	100 Ω Platinum, IEC 751, 385 Alpha, thin film
5	1801 Ω, NTC Thermistor, ±0.2 C
6	3000 Ω, NTC Thermistor, ±0.2 C
7	10,000 Ω, type 3, NTC Thermistor, ±0.2 C
8	2.252K Ω, NTC Thermistor, ±0.2 C
12	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
13	1000 Ω Nickel, Class B, DIN 43760
14	10,000 Ω, type 3, NTC Thermistor, ±0.2 C c/w 11K shunt resistor
20	20,000 Ω, NTC Thermistor, ±0.2 C
24	10,000 Ω, type 2, NTC Thermistor, ±0.2 C

CODE	TE200AD/AS Options (Multiple selections can be made)	Enclosure Availability
AP	20-30K linear slide pot for set point control (call for other values)	AD
AS	Concealed push button momentary switch (N.O.)	AD
BS	Exposed push button momentary switch (NO)	AD
GB	Grayhill exposed pushbutton, (N.O)., SPST, 3A	AS
LY	Yellow LED	AD, AS
LR	Red LED	AD, AS
LG	Green LED	AD, AS
CJ	3.5mm Phono jack for remote system access	AD, AS
AE	External jack for remote system access (4-pin header)	AS
TP	Tamper proof security screws	AS

TE200	AD	7	AP	BS

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

NOTE:
Due to the many possible configurations, special part numbers may be required, please contact Greystone for more information.

ACCESSORIES:
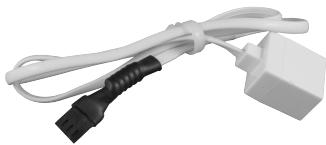
HHTA-XXX
The HHTA - Handheld Adapter converts the Greystone standard 4 pin connector to the connector of choice such as a RJ12, phone jack. Several styles and configurations are available. Please contact Greystone.
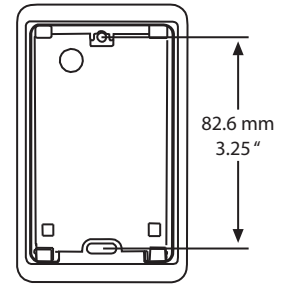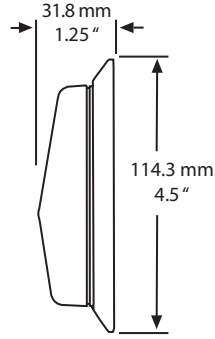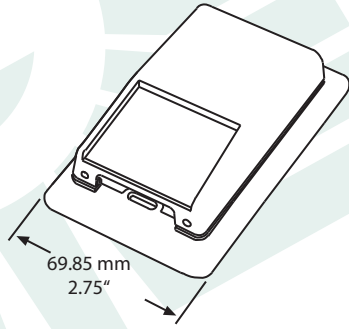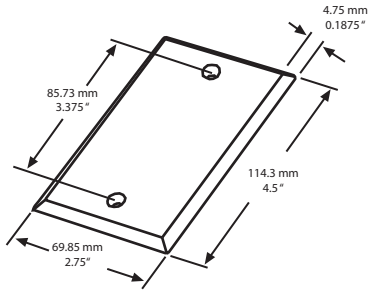
94062A114
A No 6, Spanner screwdriver for use with the tamperproof screw option (TP) on TE200AS series surface sensors.
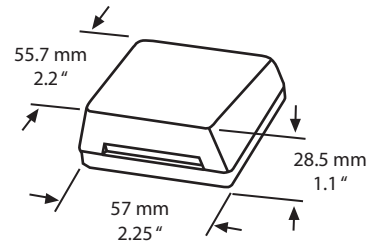
GREYSTONE ENERGY SYSTEMS, INC.

RoHS COMPLIANT

AD) Designer

31.8 mm
1.25 "

114.3 mm
4.5 "

82.6 mm
3.25 "

69.85 mm
2.75"

AS) Surface

4.75 mm
0.1875 "

85.73 mm
3.375"

114.3 mm
4.5 "

69.85 mm
2.75"

A) Micro

55.7 mm
2.2 "

28.5 mm
1.1 "

57 mm
2.25 "

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