GREYSTONE

ACCURACY BY DESIGN

MICROPROCESSOR BASED TEMPERATURE SENSORS

Precision temperature control / sensing

FEATURES:

- Thermistor or RTD sensing element
- LCD indication of temperature and setpoint
- Celsius or Fahrenheit display
- Optional override switch
- Optional LED indication
- 24 Vac/dc or 5 Vdc power supplies
- NEW functional and attractive enclosure
- Installer-friendly wiring access
- Custom logo application
- Highest quality double-sided FR4 PCB's

Peace of mind through reliable temperature monitoring

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

MICROPROCESSOR BASED TEMPERATURE SENSORS

DESCRIPTION:

The TE-200-AEM is a space temperature sensor that is microprocessor based and terminates to the analog inputs of virtually all makes of Building Control Systems.

The LCD displays can be configured to display readings in either ˚C or ˚F. The setpoint value will be displayed for two seconds after the momentary push button is released. This setpoint is factory configured from two to five degrees on either side of a fixed preprogrammed space temperature.

An optional override button and LED are available for local indication of override status.

SPECIFICATIONS:

Enclosure	Executive (AE) 71mm W x 119mm H x 32mm D (2.8" x 4.7" x 1.25")
Power Supply	5 Vdc ± 5% (must be regulated) or 10-35 Vdc / 24 Vac ±20% (Vac is half wave rectified)
Sensors	Thermistors or RTD's (see ordering information)
Display	Displays room temperature with 0.1 resolution for 0-35˚C or 32-95˚F Celsius or Fahrenheit (specified at time of ordering) Setpoint displays for two seconds when button is pressed Accuracy ±0.2 plus sensor accuracy
Setpoint (Resistive Output)	Dual (2) momentary push button controlled Output is always with respect to power supply common Range values are specific to application (see ordering information) Setpoint can be programmed to have a reset time value (1, 2, or 3 hours)
Override	Optional feature, one momentary push button Switch activation results in a closed contact output Optional wiring as separate two wire output, in parallel with sensor, in parallel with setpoint or with respect to power supply common
LED	Optional LED (red, yellow or green) Specify as a two wire output or as a one wire output with cathode connected to common or an anode connected to +5 Vdc

MICROPROCESSOR BASED TEMPERATURE SENSORS

PRODUCT ORDERING INFORMATION

Please circle and fax to Greystone for part number and product requirements

Circle the suitable options in *Italics* below

Power Supply	*24 Vac/dc*	*5 Vdc*
Temperature Display	*Degrees C only*	*Degrees F only*
LCD Adjustment ±2˚C (3.6˚F)	☐ *Yes*	☐ *No*

Sensor Type and Wiring		
☐ *2 wire output*	*PT 100 - 100 ohm, Platinum, IEC 751, 385 Alpha, thin film*	*(2)*
	1801 ohm, NTC Thermistor, ±0.2˚C	*(5)*
☐ *Reference to common*	*3,000 ohm, NTC Thermistor, ±0.2˚C*	*(6)*
	10,000 ohm, type 3, NTC Thermistor, ±0.2˚C	*(7)*
	100,000 ohm, NTC Thermistor, ±0.2˚C	*(9)*
	PT 1000 - 1000 ohm, Platinum, IEC 751, 385 Alpha, thin film	*(12)*
	1000 ohm, nickel	*(13)*
	20,000 ohm, NTC Thermistor, ±0.2˚C	*(20)*
	10,000 ohm, type 2, NTC Thermistor, ±0.2˚C	*(24)*

Setpoint Resistance — **Setpoint Display Value**

(Fill in appropriate ohm and Deg. value)

_____ *ohms*	_____ *˚C*	_____ *˚F*
_____ *ohms*	_____ *˚C*	_____ *˚F*
_____ *ohms*	_____ *˚C*	_____ *˚F*
_____ *ohms*	_____ *˚C*	_____ *˚F*
_____ *ohms*	_____ *˚C*	_____ *˚F*
_____ *ohms*	_____ *˚C*	_____ *˚F* ← **Midpoint**
_____ *ohms*	_____ *˚C*	_____ *˚F*
_____ *ohms*	_____ *˚C*	_____ *˚F*
_____ *ohms*	_____ *˚C*	_____ *˚F*
_____ *ohms*	_____ *˚C*	_____ *˚F*
_____ *ohms*	_____ *˚C*	_____ *˚F*

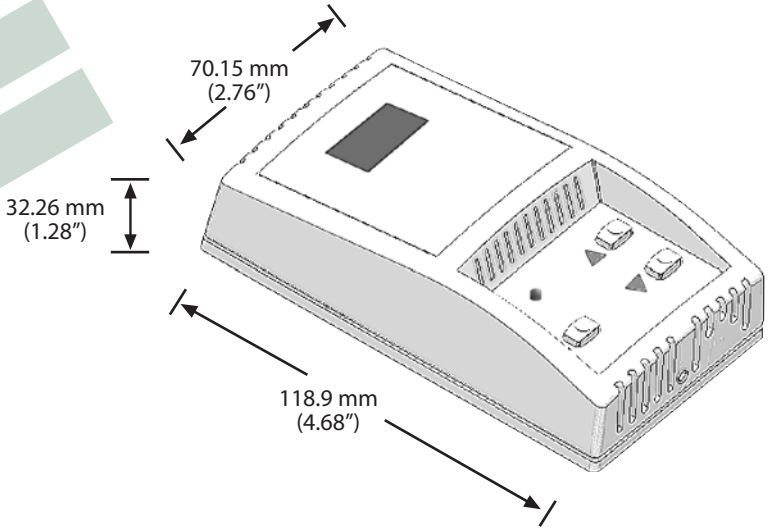
Note: We offer 0.5 degree increments in ˚C

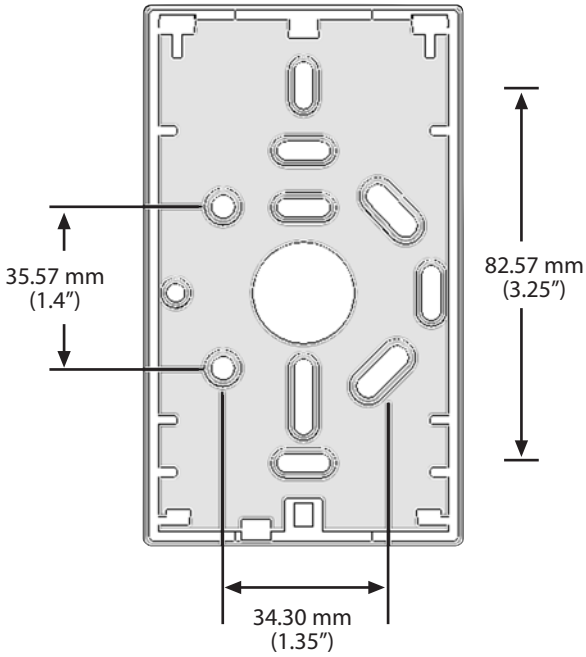
	˚C	**˚F**	
Example →	*17*	*66*	*-5*
	18	*67*	*-4*
	19	*68*	*-3*
	20	*69*	*-2*
	21	*70*	*-1*
	22	*71*	*0*
	23	*72*	*1*
	24	*73*	*2*
	25	*74*	*3*
	26	*75*	*4*
	27	*76*	*5*

Circle the suitable options in *Italics* below

Setpoint Reset	*does not reset*	*60 min.*	*120 min.*	*180 min.*
Override Switch	*none*	*two wire output*	*reference to common*	
	parallel with sensor	*parallel with setpoint*		
LED	*none*	*red*	*yellow*	*green*
	Current limiting resistor 499 ohm standard for 5V			*other* _____
	Two wire output	*cathode to common (active high output)*		*anode to +5V (active low input)*
Communication Jack (4 Pin)	☐ *yes*	☐ *No*		

DIMENSIONS





RoHS COMPLIANT

MADE IN CANADA

GREYSTONE
ACCURACY BY DESIGN

Greystone Energy Systems Inc.
150 English Drive, Moncton, N.B.
Canada E1E 4G7
(506) 853-3057 Fax: (506) 853-6014
North America: 1-800-561-5611
e-mail: mail@greystoneenergy.com
www.greystoneenergy.com

Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC 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

V.01/09

PRINTED IN CANADA