



# GREYSTONE ENERGY SYSTEMS INC

## ROOM TEMPERATURE TRANSMITTER w/ LCD TXRCL Series

The TXRCL series room temperature transmitter with LCD display is an attractive, low profile enclosure that incorporates a precision temperature sensor and a transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response for measurement of room temperatures. Additional options are available Manual override, Communications jack & Fan speed control.



### SPECIFICATIONS:

Power Supply..... 24Vac/dc  $\pm 10\%$  (non-isolated half-wave rectified)  
 Consumption..... 20 mA + (20ma x number of outputs) max @ 24 Vdc  
 Input Voltage Effect..... Negligible over specified operating range  
 Protection Circuitry..... Reverse voltage and MOV protected and output limited  
 Output Signals..... 4-20 mA active (sourcing) or 0-5 Vdc or 0-10 Vdc (specify when ordering)  
 Output Resolution ..... 10 bit for all signals  
 Output Drive Capability..... 550 ohm max for current 10Kohm min for voltage  
 Programming and Selection.. Via push buttons and on-screen menu  
 Operating Conditions ..... 0°-50°C (32°-122°F) 0-95%RH non-condensing  
 Wiring Connections..... Screw terminal block (14 to 22 AWG)  
 Enclosure..... ABS - IP30 (NEMA 1)  
 Enclosure Size..... 84mmW x 117mmH x 29mmD (3.3" x 4.6" x 1.15")

### LCD DISPLAY

Display Size..... 38.1 x 16.5 mm (1.5" x 0.65")  
 Digit Height..... 11.43 mm (0.45")  
 Symbols ..... °C, °F, OCC  
 Backlight..... Enable or disable via menu

### TEMPERATURE

Accuracy.....  $\pm 0.2^\circ\text{C}$  ( $\pm 0.4^\circ\text{F}$ )  
 Range..... 0° to 35°C (32° to 95°F) or 0° to 50°C (32° to 122°F) programmable  
 Offset .....  $\pm 9^\circ\text{F}$  programmable  
 Display Units ..... °C or °F programmable  
 Display Resolution ..... 0.5° <100°, 1° >100°

### OPTIONAL OVERRIDE

Front panel, momentary push-button, 2 wire dry contact  
 Switch ratings ..... N.O., SPST, 50 mA @12 Vdc

### OCCUPIED INPUT

Signal Type..... Digital input, 0/5 Vdc or dry contact to common  
 Logic..... Active low or active high, programmable  
 Action ..... Causes "OCC" segment to light on LCD

### OPTIONAL FAN SPEED SWITCH

Range..... Off, Auto, Low, Medium, High  
 Signal ..... Resistance: 0, 2, 4, 6, 8 K $\Omega$  (Custom ranges available)

### OPTIONAL NETWORK COMMUNICATIONS

3.5mm phono jack ..... Ring/Mid/Tip connections to a 3-pin terminal block

### PART NUMBER SELECTED

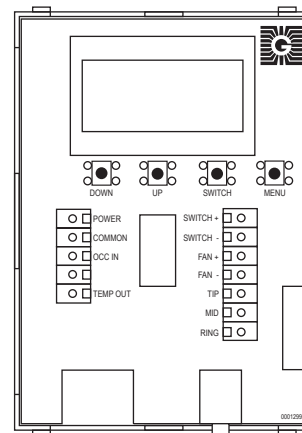
### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TXRCL	Room Temperature Transmitter w/ LCD Display

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

CODE	Options
S	Exposed push button switch (NO)
J	Comm. Jack (3.5 mm Phono)
F	Fan speed switch

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

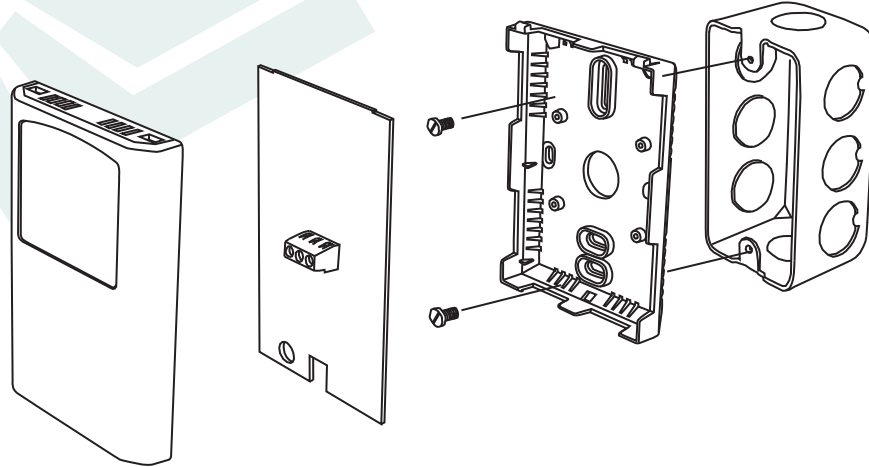


## TYPICAL INSTALLATION:

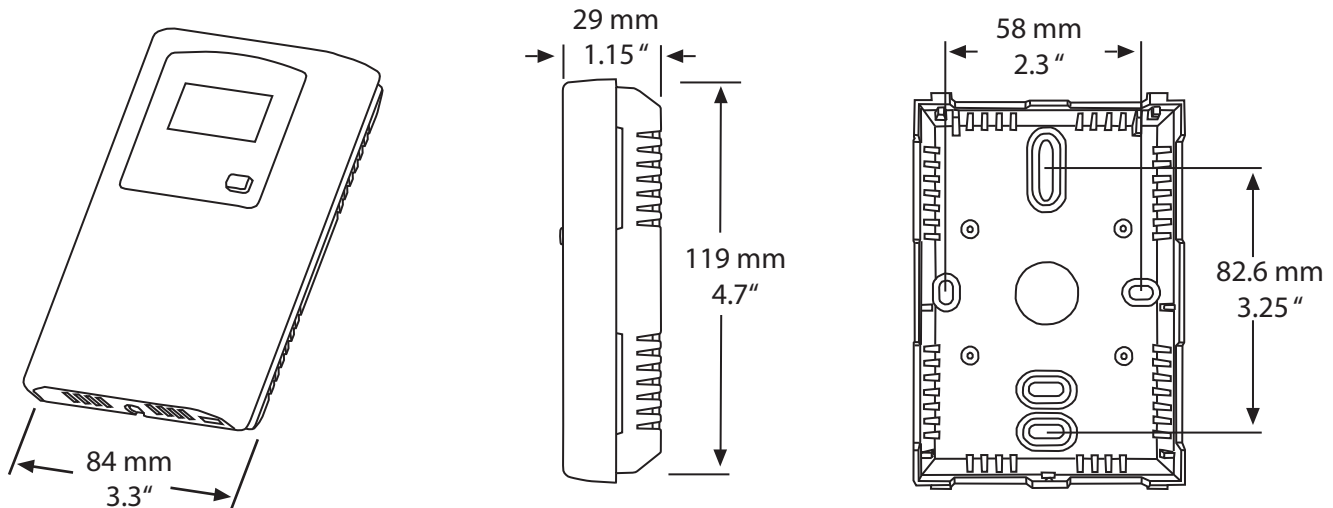
For complete installation and wiring details, please refer to the product installation instructions.

The TXRCL series can be mounted directly to a single gang electrical box or directly to a wall. Insulating foam is adhered to the back of the enclosure to provide a thermal barrier from internal wall temperatures.

A terminal block connection is provided for connection to the Building Automation System.



## DIMENSIONS:



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**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 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