GREYSTONE
E N E R G Y S Y S T E M S I N C

ROOM CONTINENTAL TEMPERATURE TRANSMITTER
TXRC Series

The TXRC series room temperature transmitter is an attractive, low prole enclosure that incorporates a precision platinum RTD 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 which include setpoint adjustment, manual override & Fan speed control.

SPECIFICATION:

Sensor	1000 ohm or 100 ohm Platinum RTD
Sensor Accuracy	±0.3˚C (±0.54˚F) @ 0˚C (32˚F)
Output Signal	4-20mA current loop, 0-5 vdc, or 0-10 Vdc (factory congured)
Transmitter Accuracy	±0.1% of span, including linearity
4-20 mA loop Power Supply	15-35 Vdc or 22-32 Vac
Minimum Current Loop	2 mA nominal (occurs with shorted sensor)
Maximum Loop Current	22.5 mA nominal (occurs with open sensor)
Maximum Loop Load	>600 ohms
0-5 Vdc Power Supply	10-35 Vdc or 10-32 Vac
0-10 Vdc Power Supply	15-35 Vdc or 15-32 Vac
Maximum Current (Voltage)	5 mA nominal
Maximum Output (Voltage)	Limited to <5.5 Vdc for 0-5 Vdc, <10.5 for 0-10 vdc
Input Voltage Eect	Negligible over specied operating range
RFI Rejection	Good RFI rejection of normal frequencies
Protection Circuitry	Reverse voltage protected and output limited
Operating Conditions	0 - 50˚C (32 - 122˚F), 0-95% RH non-condensing
Enclosure	White ABS - IP30 (NEMA 1) 84mmW x 117mmH x 29mmD (3.3" x 4.6" x 1.15")
Wiring Connections	Screw terminal block (14 to 22 AWG)

OPTIONS:
Setpoint Adjustment

Type	Front panel slidepot, 2 wire resistance output
Range	0K to 10K Ω standard
Custom spans available	1K, 2K, 5K, 10K or 20K Ω

Manual Override

Type	Front panel, momentary pushbutton
Front panel pushbutton	50 mA @12 Vdc, N.O., SPST

Status LED Input

Signal Type	Active high, low or 2-wire, 5 V current limited standard
LED Colors	Yellow (Y), Red (R) or Green (G)
Power Supply	5 Vdc standard, 10 or 24 Vdc optional

Communication Jacks

Molex	4 Pin header to 4 pin terminal block. Requires HHTA - Hand Held Adapter

Fan Speed Switch

Type	Side mounted, 5 position slide switch
Designators	O, Auto, Low, Medium, High
Signal	2 wire, resistance output 0, 2, 4, 6, 8 KΩ Custom ranges available

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TXRC	Room Continental Temperature Transmitter

CODE	Sensor
2	100 Ω Platinum, IEC 751, 385 Alpha, thin lm
12	1000 Ω Platinum, IEC 751, 385 Alpha, thin lm **(Standard)**

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

CODE	Range
1	0-35˚C (32 - 95˚F)
2	0-50˚C (32 - 122˚F)

CODE	Options
P	0-10K linear slide pot for setpoint
P1	20-30K linear slide pot for setpoint
S	Exposed push button switch (NO)
Y	Yellow LED
R	Red LED
G	Green LED
E	External jack (4-pin header)
F	Fan speed switch

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

Due to the many possible congurations, special part numbers may be required. Please contact Greystone for more information
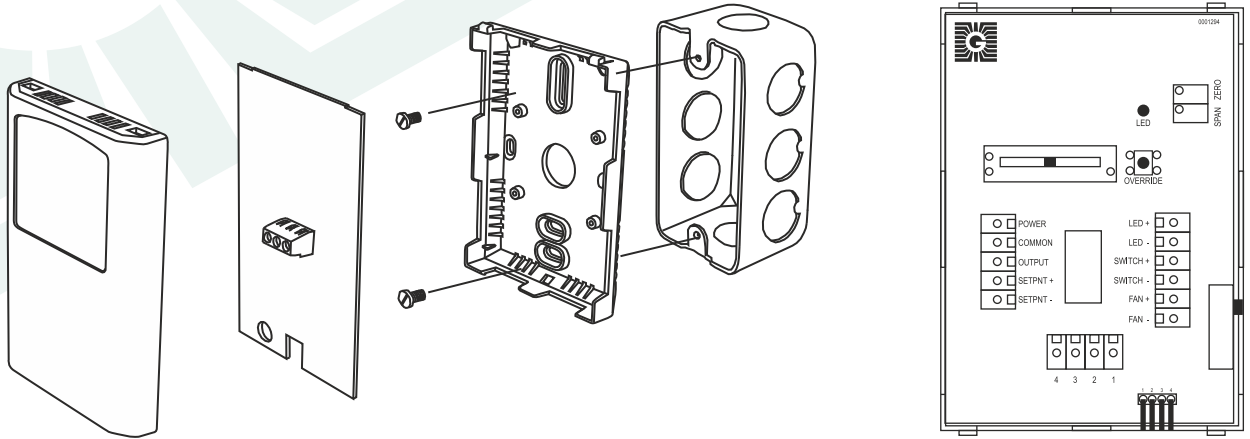
TXRC*GS* Description:**
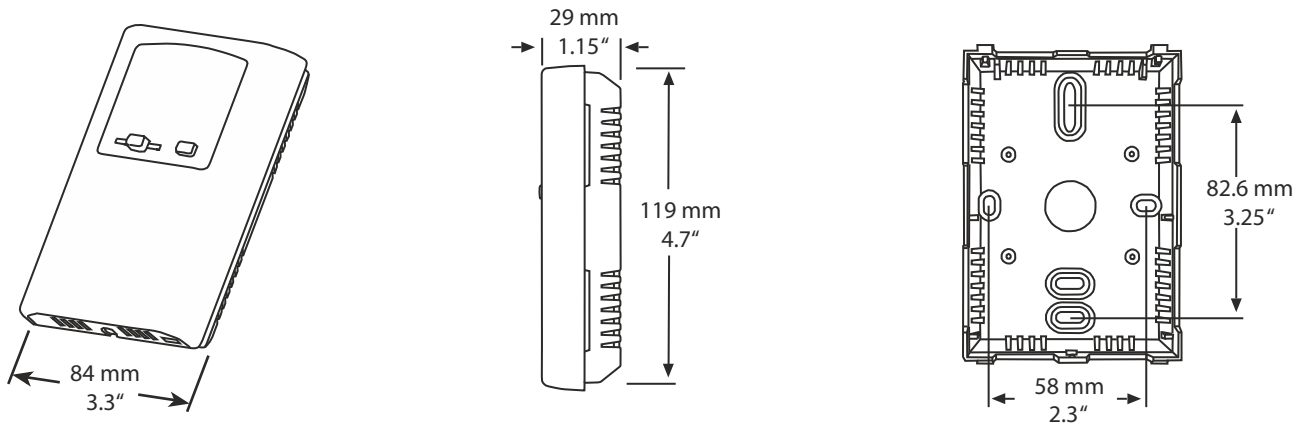
TYPICAL INSTALLATION:

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

The TXRC 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:

29 mm
1.15"

119 mm
4.7"

84 mm
3.3"

82.6 mm
3.25"

58 mm
2.3"

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