E-RTDT-140 (-20 to 140°F (-28 to 60°C))
E-RTDT-240 (30 to 240°F (-1 to 115°C))

100 OHM PLATINUM RTD TRANSMITTER

DESCRIPTION

The **E-RTDT Platinum RTD Transmitter** is a two-wire, 4-20 mA transmitter designed for use with 100 Ω platinum RTD sensors. The transmitter is available in two standard ranges:

E-RTDT-140: -20 to 140°F (-28 to 60°C)
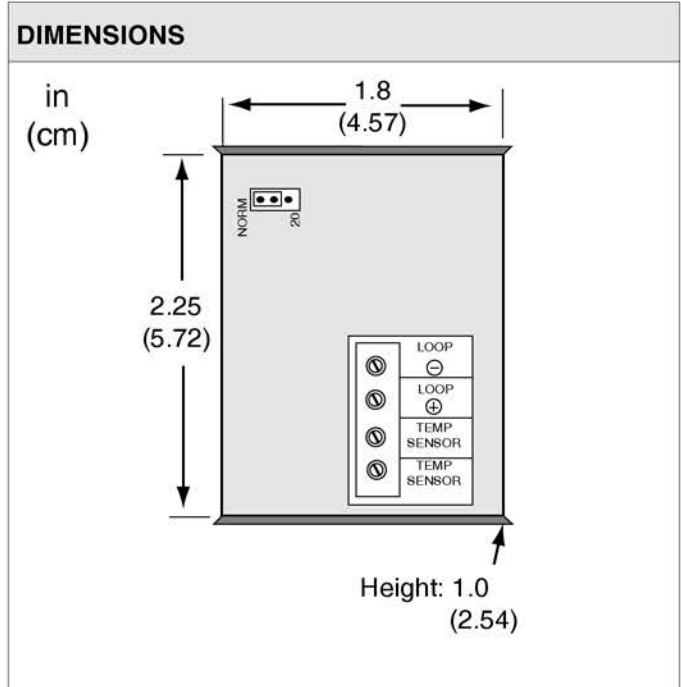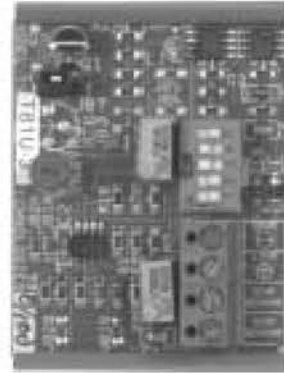E-RTDT-240: 30 to 240°F (-1 to 115°C)

The unit has a special 20 mA loop calibration test signal to provide easy system verification. Simply move the bottle plug jumper from NORM to 20, and the transmitter will output a constant 20 mA. The Loop Up LED provides power indication for the 4-20 mA output.

FEATURES

- *Loop calibration test signal*
- *Snap-track mounting*
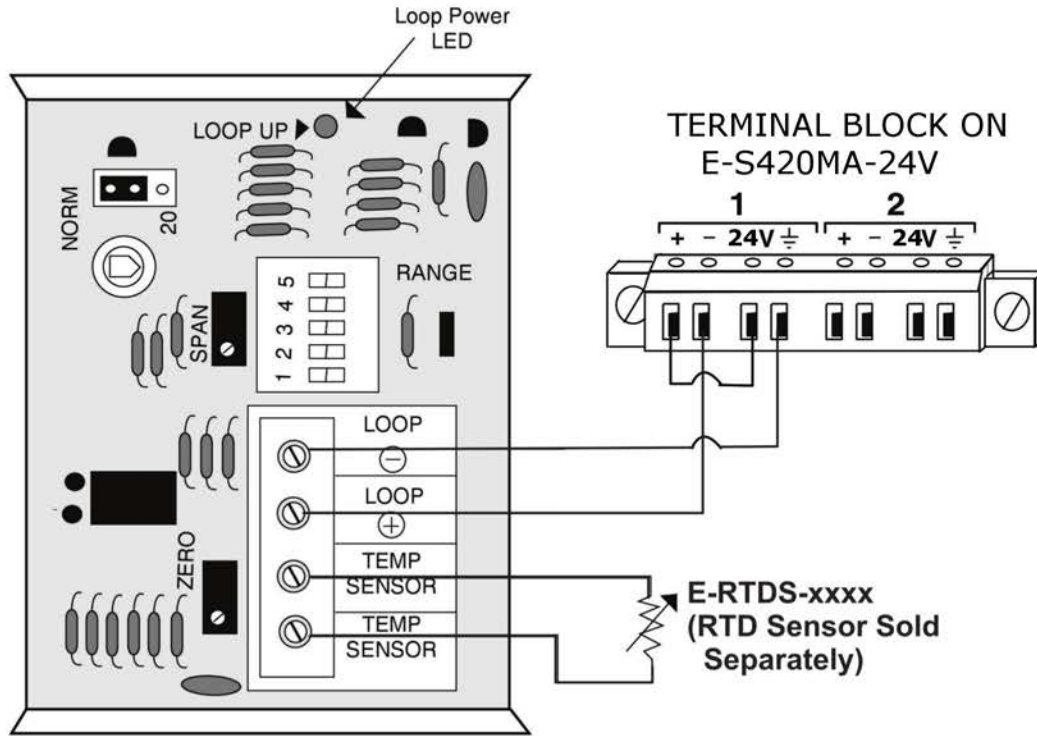- *Loop-powered LED indication*

The E-RTDT-xxx requires the E-S420MA-24V and an RTD sensor probe (i.e. E-RTDS-A240, E-RTDS-MP240 and others) to operate with the E-SEMS-16(U), E-16D,E-5D,E-2D Enterprise Environment Monitoring System.

C E

DIMENSIONS

in (cm)

1.8 (4.57)

2.25 (5.72)

NORM 20

LOOP ⊖
LOOP ⊕
TEMP SENSOR
TEMP SENSOR

Height: 1.0 (2.54)

SPECIFICATIONS

Sensor input	100 Ω platinum	**Max impedance**	675 Ω at 24 VDC
TCR 0.00385 Ω/Ω/°C		**Ambient operating temp**	0° to 140°F (-18° to 60°C)
Output	4-20 mA, loop-powered	**Humidity**	0% to 95% noncondensing
Accuracy	±0.8°F (±0.45°C)	**Dimensions**	1.8"W x 2.25"L x 1"H
Loop calibration output	20 mA ±0.2%	(4.6 x 5.7 x 2.5 cm)	
Supply voltage	10.5 VDC-45 VDC	**Agency**	CE

WIRING

Loop Power LED

LOOP UP ▶

NORM
20

SPAN

RANGE

1 2 3 4 5

ZERO

LOOP ⊖
LOOP ⊕
TEMP SENSOR
TEMP SENSOR

TERMINAL BLOCK ON E-S420MA-24V

1   2

+ − 24V ⏚   + − 24V ⏚

E-RTDS-xxxx
(RTD Sensor Sold Separately)

RTD Sensor 10 Configuration (Type: Temperature)

☐ Sensor Settings

Setting	Value	Description
Description	RTD Sensor 10	Descriptive name for the sensor
Group	1 ▾	Select which group the sensor belongs to
Min. Level	4.0	Min. supported value for the sensor
Max. Level	20.0	Max. supported value for the sensor
Associate Sensor	☑	Associate sensor to a customized sensor type
Associated Sensor Type	Temperature	Type of the associated sensor
Associated Sensor Unit	F	Measurement unit for the associated sensor
SNMP Associated Type ID	32767	ID value for SNMP type of associated sensor
Min. Associated Level	-20.000000	Sensor expected value corresponding to 4mA
Max. Associated Level	140.000000	Sensor expected value corresponding to 20mA
Min. Non-Critical Threshold		Min. threshold below which indicates an non-critical alert condition
Max. Non-Critical Threshold		Max. threshold above which indicates an non-critical alert condition
Min. Critical Threshold		Min. threshold below which indicates an alert condition
Max. Critical Threshold		Max. threshold above which indicates an alert condition
Refresh Rate	10 Sec ▾	The refresh rate at which the sensor view is updated

Min. and Max. Assoc. Levels for -140 model Change to 30 / 240 for -240 model (See manual for E-S420MA-24V For more details)

⊞ Non-Critical Alert Settings

⊞ Critical Alert Settings

⊞ Data Logging