

Input: Built-In RTD Probe, -58.0°F to 392.0°F or -50.0°C to 200.0°C

Output: 4-20 mA

- **User-Programmable Temperature Range**
- **Precision RTD Temperature Element**
- **NEMA 4X Housing**
- **Powered by 4-20 mA Current Loop**
- **316 Stainless Steel Probe**
- **1/2" NPT Fitting for Standard Thermowells**

Specifications

Range

-58.0°F to 392.0°F or -50.0°C to 200.0°C, selectable °F or °C
Keypad programmable range to correspond to 4-20 mA output

Resolution

0.1°F or 0.1°C

Accuracy

(linearity, hysteresis, repeatability)
±0.3°C at 0°C, ±1.1°C at 150°C

Sensor

IEC-751 Class B 100 Ω 0.00385 alpha curve RTD
Consult factory for other probe types or configurations

Display

4 readings per second nominal display update rate
4½ digit LCD, ½" digit height, alphanumeric lower display for units

Controls & Functions

TEST When held sets loop current and display to test level, independent of temperature input, to allow testing of system operation

▲ Up: increase output or calibration values during setup

▼ Down: decrease output or calibration values during setup

Calibration

User settable passcode required to enter calibration mode
Zero and span temperature calibration

Loop Supply Voltage

Any DC supply/loop resistance that maintains 8 to 32 VDC at gauge terminals
Reverse polarity protected
3 ft long, 2-conductor 22 AWG cable
Order optional **9046-24-008** loop power supply to power 4-20 mA loop

Loop Output Characteristics

12,000 count 4-20 mA output
Updated approximately 4 times per second
Configurable temperature range to correspond to 4-20 mA output
Configurable for upscale or downscale burnout
Indication on display for low loop power

Mechanical Specifications

Housing Size

3.5" W x 3.0" H x 2.0" D (not including probe or cable strain relief)
Add approximately 1" to depth for strain relief and wire clearance

Weight (approximate)

Transmitter: approx. 12 ounces
Shipping weight: approx. 1 pound

Material and Color

ABS/polycarbonate housing. Gasketed rear cover, NEMA 4X
Light gray body, light gray/blue front

Connection and Probe Material

½" NPT male, 316 stainless steel. Consult factory other connections

Environmental

Storage temperature -40 to 203°F (-40 to 95°C)
Operating temperature -4 to 185°F (-20 to 85°C) for housing



Spring-loaded RTD probes **MUST** be used with a thermowell.
Length = thermowell "S", "L", "A" or "stem length" dimension.

See your thermowell manufacturer's specifications.

NOTE: probe length is NOT the same as thermowell insertion depth.

Probe length is measured from top of full threads to tip of probe.

Consult factory for custom probe lengths.

Model	Type	Fitting	Length
F16LT2	Fixed RTD	1/2 NPT	2.5" L
F16LT4	Fixed RTD	1/2 NPT	4" L
F16LT6	Fixed RTD	1/2 NPT	6" L
F16LT9	Fixed RTD	1/2 NPT	9" L
F16LT12	Fixed RTD	1/2 NPT	12" L
F16LT2S	Spring-Loaded RTD	1/2 NPT	2.5" L
F16LT4S	Spring-Loaded RTD	1/2 NPT	4" L
F16LT6S	Spring-Loaded RTD	1/2 NPT	6" L
F16LT9S	Spring-Loaded RTD	1/2 NPT	9" L
F16LT12S	Spring-Loaded RTD	1/2 NPT	12" L

