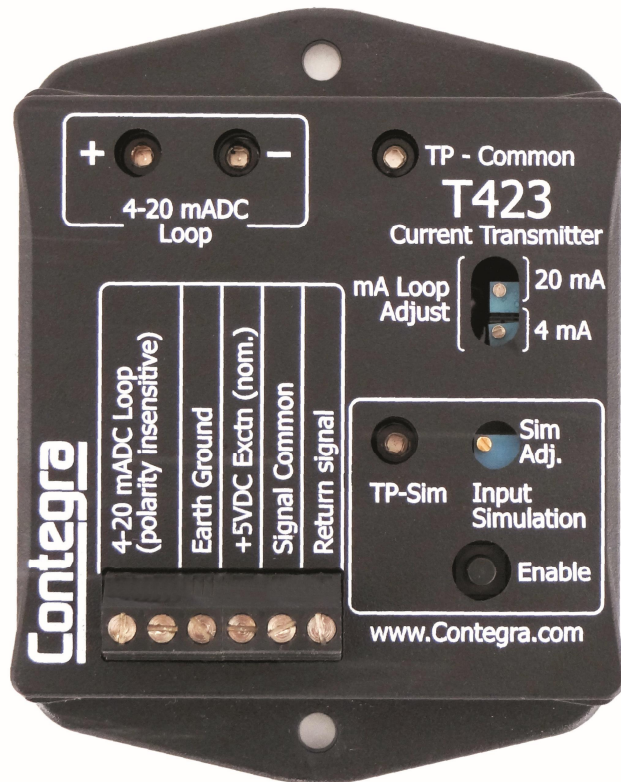

4-20 mA TRANSMITTER

Voltage to Current Converter



MODEL T423

FEATURES

- Field configurable Span & Offset
- Input Simulation
- Loop powered
- Offset adjustable
- Span adjustable from 20-100% of input range
- 3 levels of transient protection
- Test points to measure the loop current without interrupting the loop
- UL Listed

APPLICATIONS

- Easy field adjustment of the SLX 130-E to provide 4-20 mA over a specified range
- 0-5 Volt to 4-20 mA conversion

CONTEGRA's T423 4-20 mA transmitter provides convenient, easily adjustable signal spanning of the SLX 130-E Submersible Level Transducer's process signal over as little as 20% of the sensor's range. Additionally the T423 provides input simulation and three levels of transient protection on the process loop. Simulation allows the user calibrate the T423 on-the-bench. The T423 accepts a nominal 0-5 VDC input

(or portion thereof) and provides convenient calibration to produce a 4-20 mA output proportional to that input. The T423 is loop powered, 12-28 VDC. It provides three levels of transient protection on the 4-20 mA loop: a gas tube arrestor for suppression of high voltages, transorbs, and varistors for fast clamping of lower voltage transients.

MODEL T423

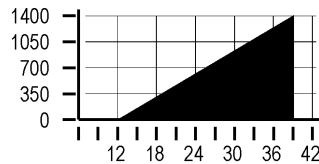
The 4-20 mA loop is measurable without interrupting the circuit by inserting the meter's probes into two jacks on the face of the transmitter. (The meter needs a burden voltage of 10 mV/mA or less.)

The T423 provides up to 3.8 mA at (nominally) 5 VDC to power the sensor.

Offset is adjustable and Span is adjustable from 20-100% of the 5 Volt range.

Specifications

Input/Output: Loop powered 4-20 mA output, 10-28 VDC Class 2 supply into 0-1400 ohms.



$$\text{Max Load} = (\text{SupplyVoltage} - 12) \times 50$$

Provides 4.9 V supply to sensor and a maximum of 3.8 mA.

Span Adjustment: From 20-100% of range (nominal). Non interactive with offset adjustment.

Dimensions:

Height: 4 inches

Width: 2 inches

Depth: 1.7 inches

Between Mtg. Holes:
3.5 inches

Electrical Connections:

Cage clamp-type barrier terminals for AWG #12-22

Approvals: UL Listed (pending)

Engineering Specifications

A 4-20 mA transmitter shall be provided to convert the sensed process variable from a nominal 0-5 VDC to 4-20 mA. The transmitter shall be 2 wire, 12 to 40 VDC loop-powered with its output proportional to the sensor input. The transmitter shall be UL Listed.

The transmitter shall provide easily accessible calibration adjustments. The Span shall be adjustable from 20-100% of the 5 Volt range. Additionally, the transmitter shall contain integral signal simulation. Simulation shall allow the operator to calibrate the transmitter on-the-bench.

The transmitter shall provide three levels of transient protection on the 4-20 mA loop: a gas tube arrester for suppression of high voltages, transorbs, and varistors for fast clamping of lower voltage transients. The transmitter's output shall be measurable without disconnecting the loop power. The transmitter shall be a CONTEGRA Model T423.

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