RC SYSTEMS

RC Systems has manufactured electronic products for the instrumentation industry since 1979. As critical alarm monitoring experts, we specialize in interfacing various sensor and analyzer devices to our alarm and display products. Our products are known for their reliability, performance, and ease of use for applications where maintenance and safety are crucial. Our wired and wireless products continue to provide solutions for customers worldwide.

ST-56 Loop Powered Indicator and Totalizer

The ST-56 Loop Powered Indicator offers the display of 4-20mA variables in Eunits, and displays variables as 30 minute trends and bar graphs. All configurations are user friendly and menu driven. The non-intrusive magnetic keypad makes the ST-56 ideal for hazardous area installations.

ST-56 in NEMA 7 Enclosure

FEATURES

- Easily adds a large sophisticated graphic LCD readout to any 4-20mA loop. Readout includes eunits, bar-graphs and trends.

- Operating power is derived from the 4-20mA current loop. Only 4.0 volts are consumed from the loop.

- Linearizer table allows entry of square-root and custom curves.

- Magnetic keypad allows sensor calibration without hazardous area declassification.

- Alarm 1, Alarm 2 and FAIL alarm level adjustable trip points flash LED's during alarm conditions.

- Real Time clock and calendar time and date stamp alarm events.

- User defined range, resolution, decimal points, eunits and tag ID.

- ST-56T totalizer option is available to display up to 10-digit totals.

- NRTL certified Explosion-Proof. NEMA 4X/7 enclosure. Alternate packaging is available.

SPECIFICATIONS

SIGNAL INPUT
4-20mA is active standard measurement range
2.5mA is minimum input for correct operation
22.5mA is maximum input before readings saturate

VOLTAGE DROP
4.0 VDC max at 20mA

DISPLAY
64 x 128 pixel graphic LCD (approximately 1.1" x 1.8")

PROTECTION
Re-settable solid-state fuse trips at approximately 100mA
The ST-56 will survive 24VDC applied across input

ACCURACY
ST-56 with 10-bit A-D = ±.1% of full scale ± one count
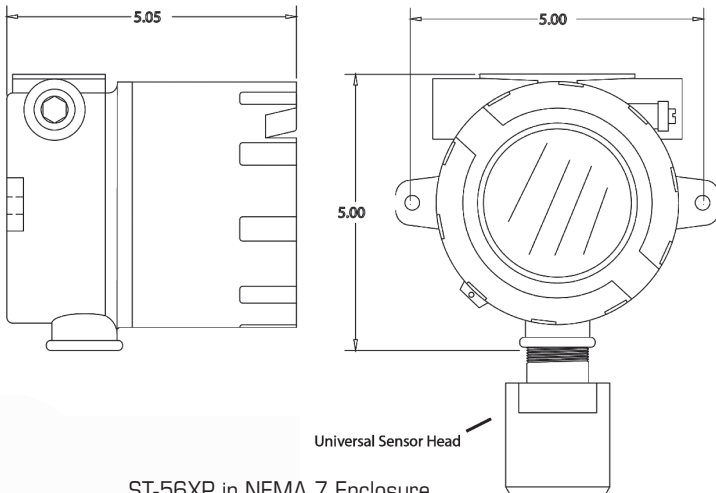ST-56T with 12-bit A-D = ±.03% of full scale ± one count

TEMPERATURE RANGE
-30 to +60 degrees C

TEMPERATURE DRIFT
± .01% of full scale per degree C ± one count

APPROVALS
Class 1, Groups A,B,C,D Class 2, Groups E,F,G
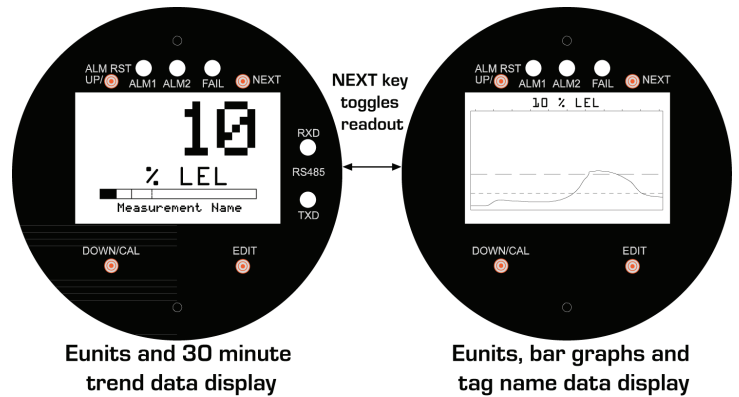Meets NEMA 4X with included 'O' ring

ST-56XP in NEMA 7 Enclosure
56-01
ALL DIMENSIONS IN INCHES

Universal Sensor Head

ST-56 INPUTS BY MODEL

56-01   ST-56 loop powered indicator with graphic LCD in NEMA 7 explosion proof housing (XP)

*56-02   ST-56 loop powered indicator with totalizer and graphic LCD in NEMA 7 explosion proof housing (TXP)

56-03   ST-56 loop powered indicator with graphic LCD (PCB module only without enclosure) (PC)

*56-04   ST-56 loop powered indicator with totalizer and graphic LCD (PCB module only without enclosure) (TPC)

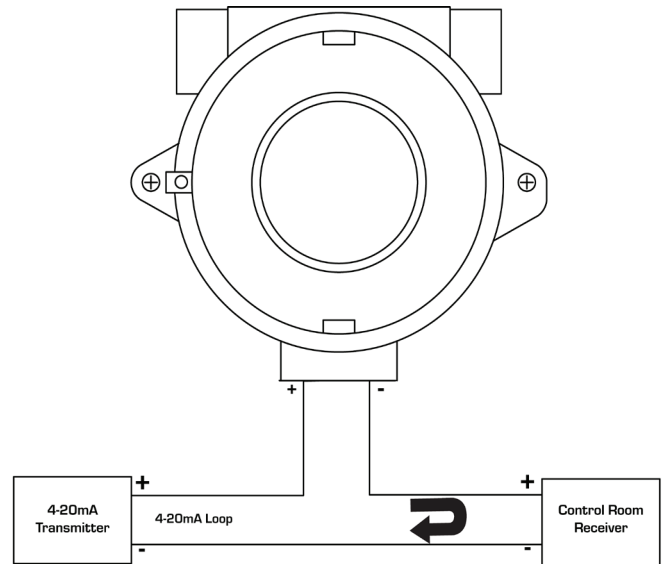* Add "T" suffix to include totalizer functions

ST-56 PC 3" PANEL ASSEMBLY

NEXT key toggles readout

Eunits and 30 minute trend data display

Eunits, bar graphs and tag name data display

ST-56 TYPICAL INSTALLATION

Model ST-56 process loop indicators may be added to existing 4-20mA installations without the addition of any new wiring. Since the meter is powered by the loop, simply install it in series with either of the two loop wires.

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