SQUIRT

Features

- Linear or Square Root Extraction of Input
- 3 ^{1/2} or 4 ^{1/2} Digit Rate Display (Selectable)
- 8 Digit Totalizer Display
- Calibration, High and Low Values Fully Programmable Through Keypad
- No Dipswitches or Pots to Adjust
- 16 Bit A/D Resolution
- Isolated Scaled Pulse Output
- Password Protection of Menu and Totalizer

Description:

Featuring up to $4^{1/2}$ digits of rate and 8 digits of total, the Squirt is a loop powered indicator capable of accepting either linear or square root 4-20 mA inputs. An isolated scaled pulse output is available for hook up to a remote totalizer. Numeric password protection prevents unauthorized access to menu. The easy-to-read menu prompts make the Squirt so easy to program that you will feel comfortable programming it without the use of a manual.

Specifications:

Power:

Loop powered 4-20 mA

Internal Battery (Setup & totalizer memory storage only):

3 V 250 mA-H Lithium (2 yr. Standby life)

Display:

Rate Display: (selectable decimal)

3.5 or 4.5 Digits (selectable), 0.35" High, Display updates

once every two seconds.

Rate Descriptors: /SEC, /MIN, /HR or "blank"

Totalizer Display: (selectable decimal) 8 Digits (99999999), 0.2" High

Totalizer Descriptors: GAL, LIT, FT3, M3, "blank" Low Battery Error Detection: "BAT" descriptor

Under/Over range Indication: Flashing display

Environmental:

OPERATING TEMPERATURE

-4°F (-20°C) to + 158°F (70°C)

Extended Temp: $-22^{\circ}F$ (-30°C) to + 158°F (70°C)

HUMIDITY

0 - 90% Noncondensing **Accuracy**: (Rate @ 20°C)

0.1% Full Scale Resolution, ±1 count

Temperature Drift: 50 ppm/°C Typical 200 ppm/°C Worst Case **Listing:** CE Compliant

Loop Powered Indicator





Inputs:

Signal Input:

Full Scale Range: 4 to 20 mA DC Loop Voltage Drop: 6 Volts Maximum

Reverse Polarity Protected Over Current Protection to 60 mA

16 Bit resolution; 1 sample every 2 seconds

Low Cutoff supplied to inhibit indications at low flow rates.

Reset Input: (contact closure)

Internal Pullup Resistor: 100 k Ω to +3 VDC

High (logic 1): Open or 3-30 VDC Low (logic 0): Less Than .5 VDC

Minimum On: 25 msec

Pulse Output:

The pulse output advances with the least significant digit of the totalizer.

Type: Opto-isolated open collector transistor.

Max. voltage (off state): 30 VDC

Current (on state): 5 mA @ .9 V drop, .1mA @ .7 drop

Pulse Duration: 15 msec Pulse Output Rate: 25 CPS max.

Pulse output divider: User selectable, ÷1, ÷10, ÷100 or off

Calibration & Operation:

Input Scaling: Via front keypad Calibration: Via front keypad Decimal Point: Via front keypad

Reset Input: Via front keypad or remote dry contact closure

Keypad: 4 tactile feedback keys

Mounting:

O- Circuit Board - OEM option (consult factory)
 Panel Mount - NEMA 4X Clear Front

2- Wall Mount - NEMA 4X Enclosure with Squirt

mounted behind clear cover

3- Explosion Proof - Class I, Division I, Groups B, C & D

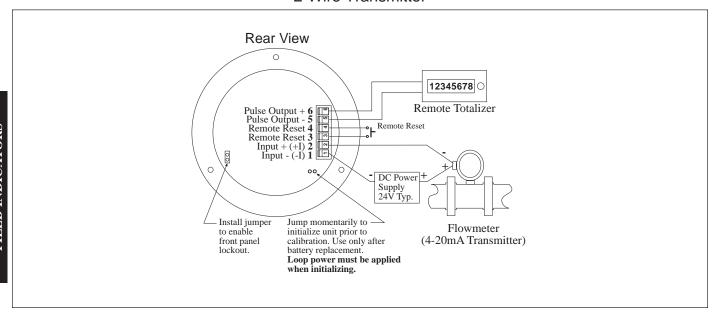
Class II, Division I, Groups E, F & G

5- Wall Mount - NEMA 4X with Squirt mounted

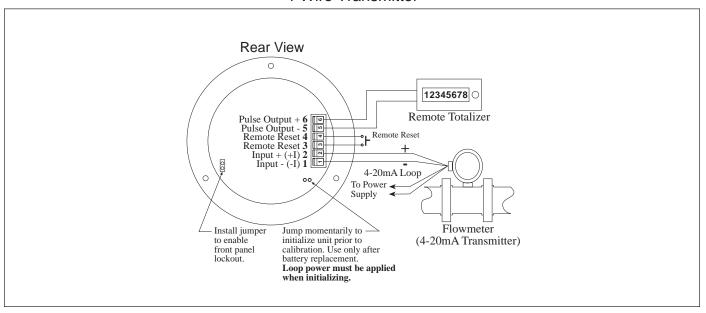
outside opaque cover

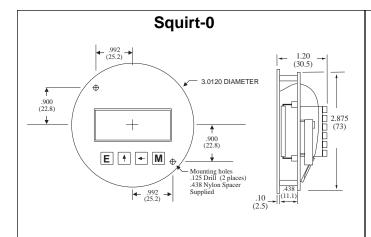
Wiring:

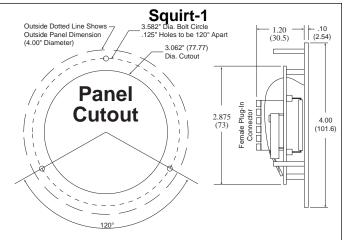
2-Wire Transmitter



4-Wire Transmitter

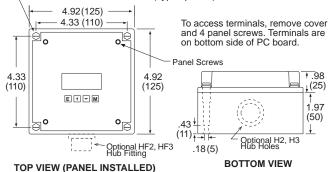






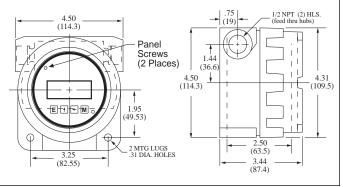
Squirt-2

 #8 Screw Mounting holes molded directly under cover screws. Max. screw head .29" (Typ. 4 places)



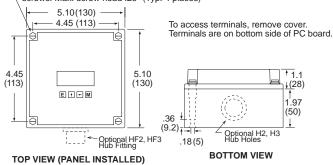
Squirt-3

To access terminals, unscrew cover and loosen 2 panel screws. Terminals are on bottom side of PC board.



Squirt-5

#8 Screw Mounting holes molded directly under cover screws. Max. screw head .29" (Typ. 4 places)



Ordering Information Example: SQUIRT 3 SQUIRT |

Loop powered; Rate & Total Mounting: —

0 = OEM

1 = Panel Mount

2 = NEMA 4X Box (Squirt behind clear cover)

3 = Explosion Proof Housing

5 = NEMA 4X Box (Squirt outside opaque cover)

Options: -

ET = Extended Temp.: -22°F to 158°F (-30°C to 70°C)

R = External Magnetic Reset

for NEMA4X & Explosion Proof Enclosures

RX = NEMA7 Explosion Proof Reset Switch for Explosion Proof Enclosure with 3/4" straight thread side entry

H2 = 0.875" Hole for mounting styles 2 and 5

HF2 = 0.5" Female NPT Hub fitting for mounting styles 2 and 5

H3 = 1.125" Hole for mounting styles 2 and 5

HF3 = 0.75" Female NPT Hub fitting for mounting styles 2 and 5

ET