

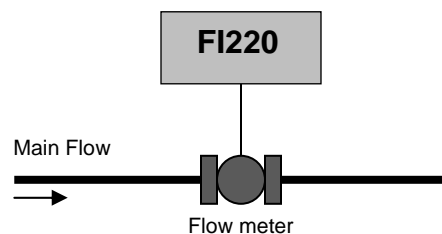
FI 220 Series

Battery Powered Flow Transmitters with LCD Display



Features

- Rugged diecast aluminium construction
- 2-line * 12-character LCD display
- Total / accumulated total / flow rate
- Compact or remote installation
- Frequency flow inputs only
- Open collector pulse output
- 4-20 mA output (external loop-powered)



Overview

The FI220 series of battery powered flow transmitters with rugged diecast aluminium construction provides reliable results for industrial requirements.

The FI220 series has micro-processor inside, which makes it dependable and the controller also has pulse input such as sine wave, open collector, reed switch and even analogue input.

The FI220 series has open collector pulse output and external loop powered 4-20mA output.

General

Display

2-line * 12-character LCD

Totaliser descriptors: m3, lit, gal, ft3

Display Update Rate

1.0-sec

Decimal Point

Fully programmable for rate and total

Time Base

The flow rate can be displayed in units per second, minute hour or day

Data Retention

Set up parameters and totals stored in EEPROM with 10 years' retention

Temperature

-20 to 65 °C storage

-10 to 55 °C operating

Power

Battery powered operation (supplied with 1 D size 3.6V lithium battery)

Flow Inputs

Frequency (Pulse) Input

Frequency Range: 0 to 5 kHz

Signal Type:

sine wave, open collector, reed switch, proximity switch, voltage and current pulse

K-factor Range (selectable decimal point):

0.001 – 99999.999 (pulse per units)

0.01 – 999999.99 (pulse per units)

0.1 – 9999999.9 (pulse per units)

1 – 99999999 (pulse per units)

Enclosure

Dimension: 75(H) x 55(W) x 109.5(D) mm

Material: Aluminum

Standards and Approvals

CE, manufactured under ISO 9001

Pulse Output

Function

Open collector output with a pulse produced on each increment of the accumulated total

Selectable pulse output ON/OFF (for battery power saving)

Pulse Width

20 ms, 100 ms (negative going pulse)

Duty Cycle

24 pulses/sec max (20 ms)

5 pulses/sec max (100 ms)

Output

Current sinking output transistor 20 mA, 30 Vdc max (pulse output is suitable for driving remote counter or PLCs)

Relay Output

Function

High and low flow rate alarms based on the net energy

Max. Switching Power

100 VA, 60W

Max. Switching Voltage

AC 250V, DC 30V

Max. Switching Current

6 Amps

4-20 mA Output

Function

The flow rate is output

Type

2-wire external loop powered

4-20 mA output

External power source (for 4-20 mA output)

DC12V – DC24V

Resolution

12-bit

Accuracy

Better than 0.05% (F/S)

Maximum Load

700 Ohms (@ DC24V ext loop powered)

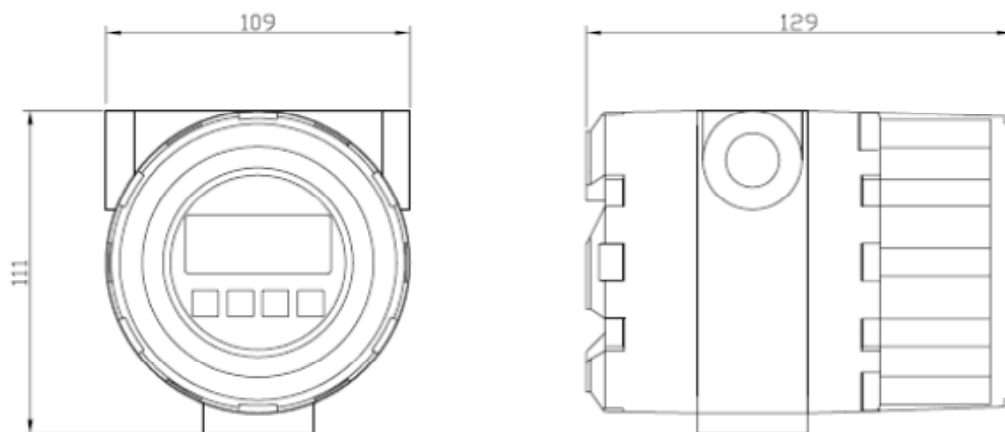
200 Ohms (@ DC12V ext. loop powered)

Isolation

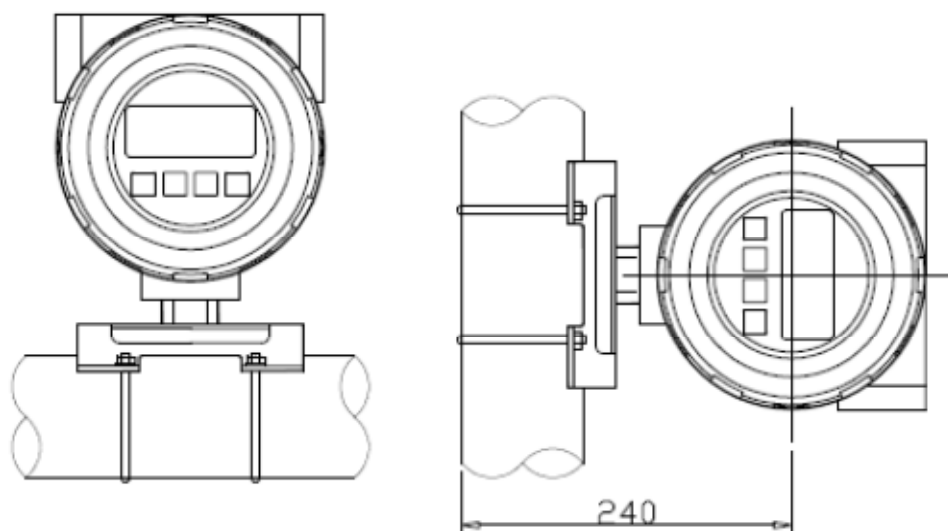
Isolated

Dimensions

Transmitter



Transmitter with pipe mounting bracket



Ordering Information

FI 220 -	Rugged aluminium battery powered flow transmitter	
	Output	
	1	pulse, loop powered 4-20 mA
	Reset function	
	0	None
	1	External totaliser reset