

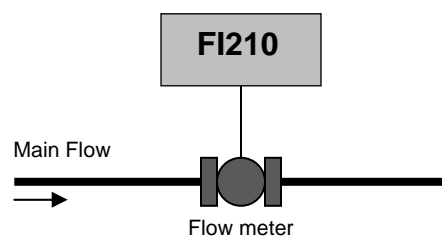
# FI210 Series

## 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
- Alarm setter (2 relays)



### Overview

The FI210 series of powered flow transmitters with rugged diecast aluminium construction provides reliable results for industrial requirements.

The FI210 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 FI210 series has open collector pulse output and 4-20mA output.

## General

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### **Display**

2-line \* 12-character LCD

### **Display Update Rate**

0.25-sec

### **Decimal Point**

Fully programmable for rate and total

### **Time Base**

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

### **Data Retention**

Set up parameters and totals stored in non-volatile memory with 10 years' retention

### **Operating Temperature**

-10 to 55 °C

### **Power**

- AC110~220V DC 24V

### **Power Consumption**

6VA

### **Transducer Supply**

8V / 12V / 24V selectable, 50 mA max

## Flow Inputs

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### **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:

0.0001 – 50000.0000 (pulse per units)

## Enclosure

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

Material: Aluminum

Explosion: Exd IIB T6

## Pulse Output

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### **Function**

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

### **Pulse Width**

10 ms (negative going pulse)

### **Duty Cycle**

49 pulses/sec max

### **Output**

Current sinking output transistor 50 mA, 30 Vdc max (pulse output is suitable for driving remote counter or PLCs)

## Relay Output

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### **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

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### **Function**

The flow rate is output

### **Resolution**

12-bit

### **Accuracy**

Better than 0.025% (F/S)

### **Maximum Load**

500 Ohms internally powered

950 Ohms

### **Isolation**

Isolated

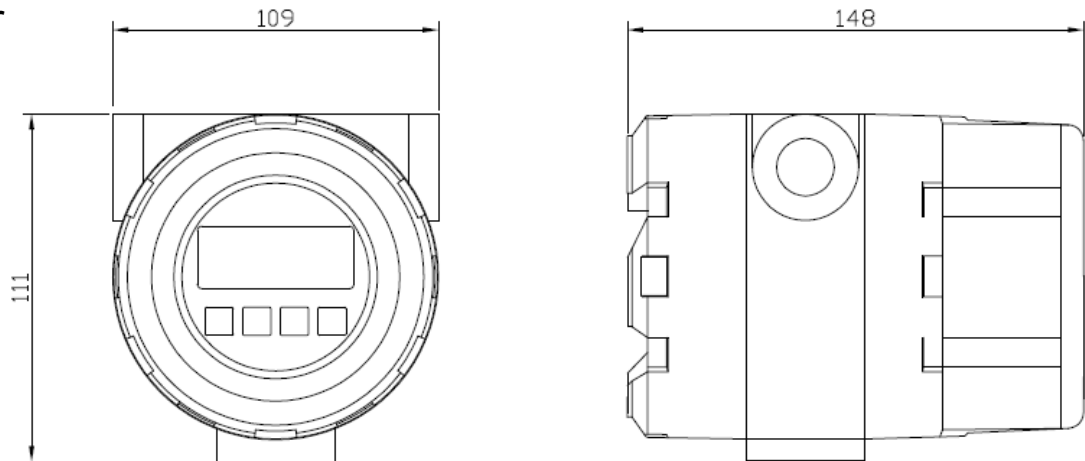
## Standards and Approvals

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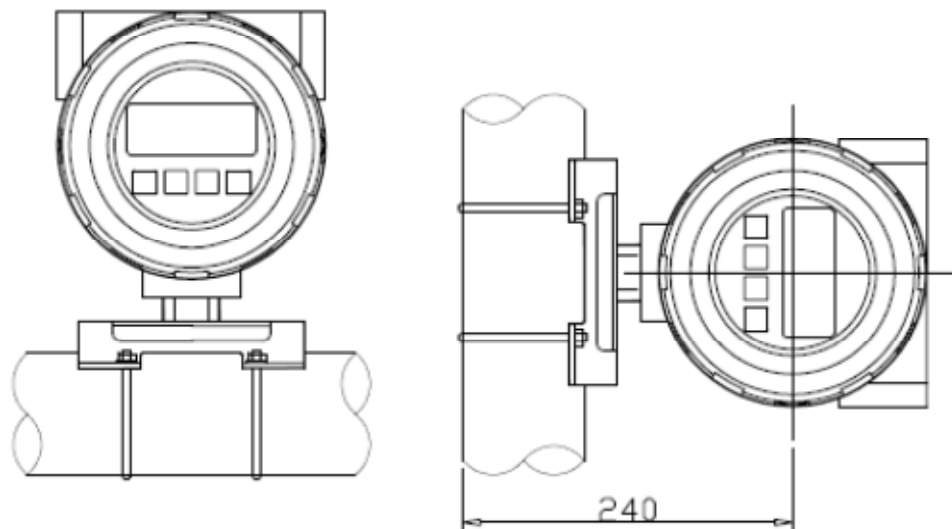
CE, manufactured under ISO 9001

## Dimensions

### Transmitter



### Transmitter with pipe mounting bracket



## Ordering Information

FI210 -	<b>Rugged aluminium powered flow transmitter</b>	
	<b>Output</b>	
	<b>0</b>	Basic model (pulsed, loop powered 4-20 mA)
	<b>1</b>	+ 4-20 mA
	<b>2</b>	+ 2 relays
	<b>3</b>	+ 4-20 mA + 2 relays
	<b>Power</b>	
	<b>D</b>	24 Vdc
	<b>E</b>	110/220 VAC
	<b>Reset function</b>	
	<b>0</b>	None
	<b>1</b>	External totaliser reset