

FLOW TOTALIZER (FQ3000)



BASIC

Various protocols provided
Large Size Graphics Display
Remote control 5 Terminal
Back Light
Display Pressure & Temperature
86 - 260 V AC
PULSE&Analog Flow Input

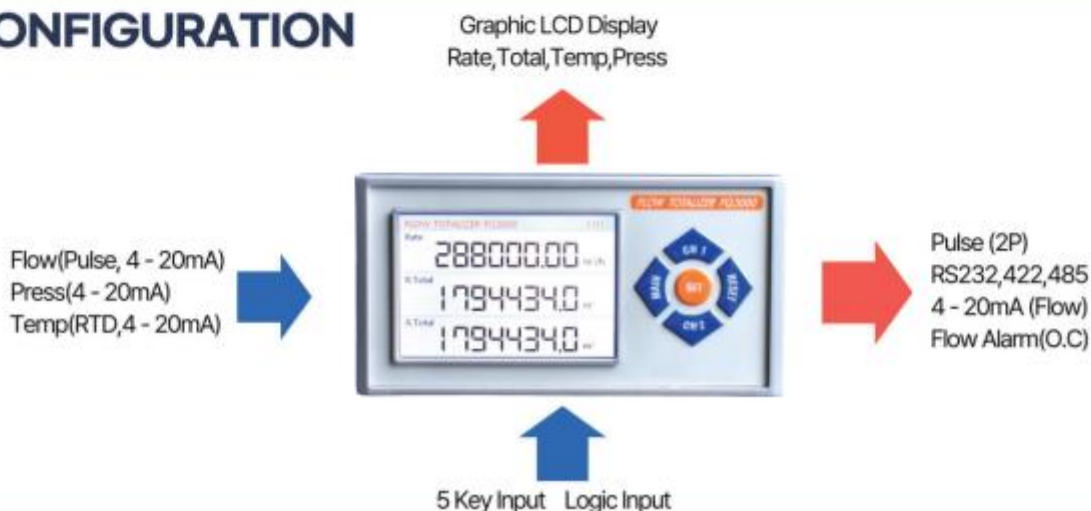
FUNCTION & FEATURES

Actual Flow
Detailed Total (CH1)
Reset Total, Accumulate Total (CH2)
Memory Data logging Output

Overview

- Flow Totalizer FQ3000 은 단일 Hardware를 사용하여 Software의 변경만으로 Batch Controller , Totalizer용으로 사용 할 수 있도록 설계된 다기능 Controller입니다.
- Pulse, Analog, RTD, Pressure 등의 입력 신호를 수신할 수 있으며, Pulse 출력, Relay 출력 및 4~20mA, RS232, RS485등의 출력이 가능합니다.

CONFIGURATION



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FLOW TOTALIZER (FQ3000)

General

- Display : 73X52mm Graphic LC(Backlight)
- Transducer Supply : 8-24V dc field adjustable, 110mA max
- Power 100 ~ 240 V AC
- Operating Temperature: 0 ~ 55°C
- Dimension: 146mm(w) X 75mm(h)X151mm(d)
- Panel cutout: 139mm(w) X 66.5mm(h)
- Approvals : CE,KC

Frequency Input

- Minimum : 0.25Hz on Rate, 0Hz on Total
- Maximum : 10KHz
- Input Circuits : Sine, logic and proximity switch inputs, Current Pulses, Open Collect Pulses
- Meter factor Range : 0.000001 ~ 1000
- Non-Linear Correction : Up to 10 correction points

4-20mA Input

- Input Types : Flow (2 ranges), pressure and temperature
- Input Impedance : 250 ohms
- Measurement Range :
Pressure : 0 ~ 100 kgf/cm² abs
Temperature : -273°C to 800°C
Flow : 0.00001 ~ 999,999
- Accuracy : 0.1%
- Circuit : 250 ohm resistors connected to a common signal ground (current sinking)
- Non-Linear Correction :
20 point curve can be applied to the flow input

RTD Input

- Type : PT100 4Wire or 2,3Wire
- Range : -100°C to 300°C
- Accuracy : 0.1°C
- Linearity : The non-linearity of the RTD is internally compensated

Pressure Input

- Type : Absolute or gauge
- Span : Absolute or gauge pressure is programmable at 4mA and 20mA
- Atmospheric :
If a gauge pressure sensor is used, the atmospheric pressure is programmable

Pulse Output

- Corrected Pulse :
- Pulse Width : 10,100, 250, 500ms
- Duty Cycle : 50 HZ. max.
- Uncorrected Pulse : Specification of the output is the same as the input.
- Output : Open collector transistor will sink 50mA max.

4 - 20mA Output

- Function : Flow Rate (calculated volume, mass and Energy) Temp, Pressure
- Isolation : Output is isolated
- Maximum Load : 600 ohms internally powered.
- Accuracy : Better than 0.1%
- Resolution : 12 Bits

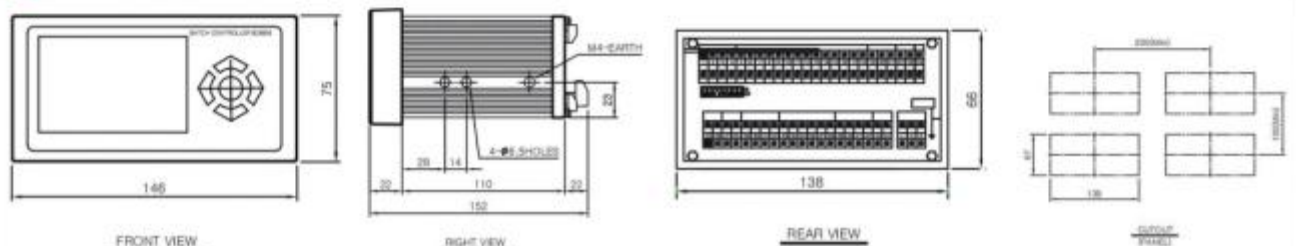
RS232/485

- Type : Both RS232 and RS485 are provided.
- Function : Printer and computer protocols are fully programmable
- Printer : A print is initiated on each reset or at a programmable time interval. (Note : Protocols are provided for roll & column printers.)
- Computer : An ASCII based protocol enables all displayed parameters to be read and the totals to be reset
- Protocol : ASCII, ASCII2, MODBUS RTU, MODBUS ASCII
- Data Logging : Output generated at intervals of once a minute to once every 24 hours.
- The totals can be programmed to reset on each print or at 24 : 00 hours
- Time : A real time clock is provided to give time and date on each output
- Baud rate : 2,400 ~ 57,600

Relay Output

- Function :
High and low flow rate alarms based on the flow rate in mass corrected volume or energy
- Maximum Ratings : Power : 250VA
Voltage : 250VAC, 30VDC
Current : 5 Amps

Dimension



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