FIT-S

Features

- Ruggedised, State-of-the-art Micro-controller based system.
- Dual functionality flow rate indication / 8 digit flow totalizing and Batch Counter mode.
- User configurable flow rate range.
- Field settable flow totalizing rate.
- Relay outputs - Optional for Batch or Set point operation.
- 24VDC 100 mA Excitation Supply for external use.
- Retransmission output - Optional.
- Serial communication port with MODBUS protocol - Optional.
- Flameproof enclosure - Optional.

Application

Flow Indicator Totalizer model **FIT** is a panel mounted instrument with multi-functionality viz. Flow Rate indication, Flow Totalizing, batch counter & alarm for instantaneous flow. It accepts mA signal proportional to flow rate from flow transmitter. Flow Transmitter can be DPT with orifice assembly, Rotameter, Magnetic Flowmeter etc. with output of 4-20 mA.

FIT displays instantaneous flow rate on 5 digit LED Display. Flow Rate and Totalizer range can be configured as required even at site. Totalizer is a 8 digit LED Display. Totalizer can be reset manually or remotely as optional. The unit incorporates two relays, from which one can be used for alarm for instantaneous flow & one for batch counter or both for alarm. On each set point one contact output is given, which can be used for control or hooter applications.

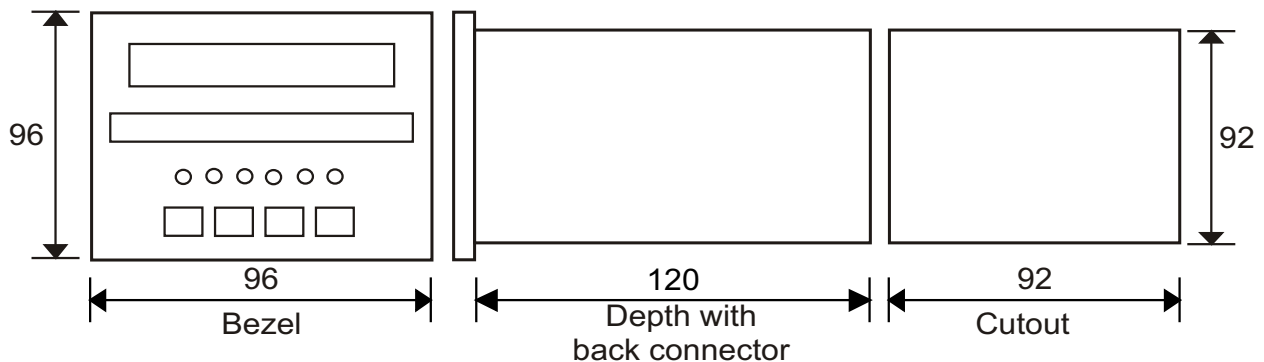Power Supply for external transmitter (24 VDC @ 100 mA) is a standard feature. It eliminates need of separate power supply to power the transmitter. For batch counting, batch count can be set. When flow total equals preset count, system gives a contact output. It can be used for control operations like dosing, stoppage etc.

Optional

➤ Type of input 4-20 mA Linear / Square root type.

➤ There are two relay outputs which operate on flow rate and/or totaliser as per combination selected.

➤ **FIT** also provides linear 4 - 20 mA true retransmission signal for other panel mounted instruments like recorders, controllers etc.

➤ Serial connectivity on RS485 port with MODBUS RTU protocol.

Dimensional drawing   All dimensions are in mm

96

96
Bezel

120
Depth with back connector

92
Cutout

92

FIT-S

TECHNICAL SPECIFICATIONS

Input	4 - 20 mA DC Linear or Square root corresponding to flow rate, Factory set.
Display	7 Segment LED, 5 - Digit Flow rate, 8 - Digit Totalizer.
Keyboard	4 Key Tack-tile Keyboard.
Resolution	4 and 1/2 digit for Flow rate.
Accuracy	± 0.3% of FS, ± 1 LSD (Flow) and ± 2 Count (Totalizer).
Totaliser	8 Digit Totalizer for flow.
Scaling	Flow Rate and Totalizer, span and zero are scalable by front keypad.
Data Storage	Totalizer value and set points stored in battery backup RAM.
LED Indications	LED indications for Relays and Serial Communication.
Excitation	24 VDC,100 mA excitation supply for external Flow Transmitter.
Re-transmission (Optional)	True 4 - 20 mA re-transmission output for external indicators / recorders or PLC. Maximum load resistance 500 Ohms.
Remote Reset (Optional)	Remote Totalizer reset facility through potential free switch input.
Alarm Output (Optional)	Relay output for 2 set points on flow rate or one for flow rate and one for totaliser or Batching relay. (Refer to ordering info)
Serial Port (Optional)	RS485 port with MODBUS RTU protocol for on-line communication.
Supply	230 VAC or 110 VAC, ±10 %, Single Phase, 50 Hz. Factory set.
Connections	On Screw Type Connectors.
Cabinet	Panel mounting type. Bezel: 96 x 96mm (H x W) Depth: 120 mm Cutout: 92 x 92 mm (H x W)

ORDERING INFORMATION

FIT-S - Sx- Ix- Cx- Ox- RTx - RSx - Ex

S = Supply; 0= 230VAC; 1= 110VAC
I = Input; 0= Linear, 1= Square root
C = Communication; 0= No; 1= Yes
O = Relay Output; 0= No; 1= 1 relay on flow rate; 2= 2 relay on Flowrate; 3= 1 relay on totaliser; 4= 1 relay on Flowrate and 1 relay on Totaliser; 5= 2 relay on totaliser; 6=

1 relay to start batch and 1 relay to stop batch.
RT = Retransmission; 0= No; 1= Yes
RS = Remote Reset; 0= No; 1= Yes
E = Enclosure; 0= Panel Mounting; 1= Flameproof

Note : *Due to continuous development specifications may change without prior notice*