

# FIT- 4393



## Application

Flow Indicator Totaliser model FIT-4393 is a panel mounted instrument with multi-functionality such as Flow Rate indication and Flow Totalising. It accepts mA signal proportional to flow rate from maximum four flow transmitters. Flow Transmitters can be DPT with orifice assembly, Rotameter, Magnetic Flowmeter etc. with output of 4-20 mA

FIT-4393 displays instantaneous flow rate or totaliser value for each input selectable from front end keys on 8 digit display. Flow Rate and Totaliser range can be configured as required even at site. Totaliser can be reset manually. All programmable settings are stored in EEPROM and Totaliser value is stored in battery backed RAM.

Power Supply for flow transmitters (24 VDC @ 100 mA) is a standard feature. It eliminates need of separate power supply to power the transmitter.

FIT also provides linear 4 - 20 mA retransmission signal for other panel mounted instruments

Serial connectivity on RS485 port with MODBUS RTU protocol. This RS485 port is optically and galvanically isolated for safe connection to DCS or SCADA from field.

## Features

- ☞ Ruggedised, State-of-the-art Micro-controller based system
- ☞ Dual functionality selectable for flow rate indication / 8 digit flow totalizing for all four flow inputs.
- ☞ User configurable flow rate ranges
- ☞ Field settable flow totalizing rates
- ☞ 24VDC 100 mA Excitation Supply to power flow transmitters
- ☞ Retransmission output
- ☞ RS485 Optical and galvanic isolated serial communication port with MODBUS protocol

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

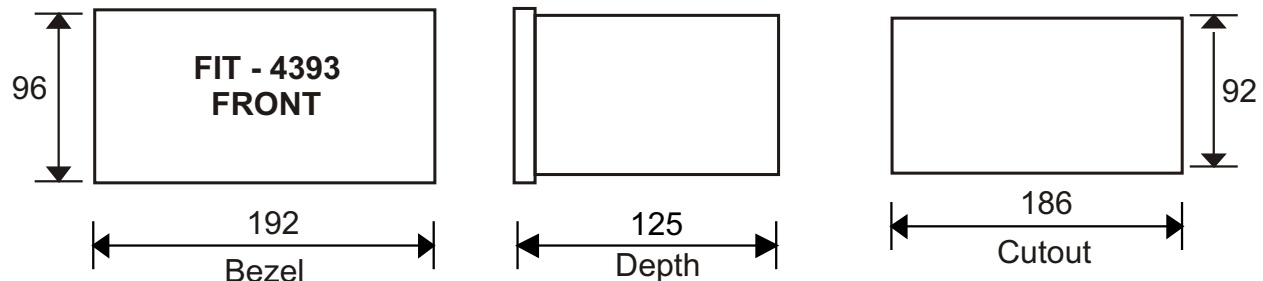
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## TECHNICAL SPECIFICATIONS

<b>Inputs</b>	Four 4 - 20 mA DC Linear corresponding to flow rate
<b>Display</b>	7 Segment LED, 32 - Digit Flow rate / Totaliser for each flow meter
<b>Keyboard</b>	4 Keys for display selection and 4 keys for programming
<b>Resolution</b>	4 and ½ digit for Flow rate for each flow meter
<b>Accuracy</b>	± 0.15 % of FS, ± 1 LSD for Flow and Totaliser
<b>Totaliser</b>	8 Digit Totaliser for each flow input
<b>Scaling</b>	Flow Rate and Totaliser, span and zero are scalable by Software
<b>Data Storage</b>	Totaliser value and set points stored in Battery backed RAM
<b>LED Indications</b>	LED indications for Relays and Serial Communication
<b>Excitation</b>	24 VDC,100 mA excitation supply for external Flow Transmitter
<b>Re-transmission Optional</b>	True 4 - 20 mA re-transmission output for external indicators / recorders or PLC. Maximum load resistance 500 Ohms
<b>Settings</b>	All programmed settings are stored in EEPROM
<b>Display</b>	0.3" 7-segment LED - 8 digit display is provided for each input. This display is selectable from front end keys for flow and Totaliser.
<b>Serial Port Optional</b>	Galvanic and Optical Isolated RS485 port with MODBUS RTU protocol for on-line communication .
<b>Supply</b>	230 VAC or 110 VAC, ±10 %, Single Phase, 50 Hz. Factory set
<b>Connections</b>	On Screw Type Connectors
<b>Cabinet</b>	Panel mounting type. Bezel: 96 x 192mm (H x W) ;Depth: 125 mm Cutout: 92 x 186 mm (H x W)

### Dimensional drawing

All dimensions are in mm




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