

Flow Indicator

Flow Indicator, & Totalizer with Analog input

Model: FI 593



INTRODUCTION

FI 593 Flow Indicator & Totalizers are extremely versatile indicators that can be used with a variety of Analog output flow sensors. These indicators offer extreme reliability and low cost for flow measurement. FI 593 Flow indicator & Totalizers can be used with Current (or) Voltage output sensors. Micro controller based electronics ensures accurate readings for both rate of flow indication and total flow indication. A number of programmable features including Inline calibration are standard. All the parameters are saved in a non volatile EEPROM memory which doesn't needs any external battery. There is a advanced power fail feature by which even if there is any power failure the Total Flow reading is automatically saved to memory and resumes with the same value after Power On. Programmable Flow Rate High & Low Range Selection for Various Flow Sensors & Transmitters. Selectable Units & Resolution. Selectable Linear / Square root Conversion for Analog Input(4 - 20mA).

Applications

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| ☐ Water and waste water | ☐ Water parks/ Swimming pools |
| ☐ Chemical | ☐ HVAC |
| ☐ Petrochemical | ☐ Water Pond |
| ☐ Agriculture | ☐ Water Lake |
| ☐ cleaning | |

FEATURES

- ✓ 16 Characters X2 line LCD display
- ✓ Rate of Flow, Total Flow
- ✓ $\pm 0.1\%$ of full scale Accuracy
- ✓ Micro controller signal processing
- ✓ Programmable Flow Rate Ranges
- ✓ Selectable Units
- ✓ Selectable Resolutions
- ✓ User Front End Calibration
- ✓ Compact size
- ✓ Voltage (or) Current Analog Outputs

Technical Specifications

Model	FI 593
Display	16 Character X 2 Line LCD Display
Input Type	4-20mA / 0 - 10V / 0 - 75mV (User Scalable)
Accuracy at 25°C	$\pm 0.1\%$ of FS
Resolution	1 / 0.1 / 0.01 (any One User Selectable)
Display Modes	Flow Rate (FR) & Total Flow (TF) or Batch Total (BT)
Display Range	0 - 9999(4 Digits) for FR , 0 - 99999999(8 Digits) for TF
Voltage Drop	1 V Maximum (Applicable only for current input models)
Input Impedance	18K Ohms (Applicable only for voltage input models)
Conversation Modes	Linear, Square Root (User Selectable)
Units	m ³ , Litre, Gallons, Kg (any One User Selectable)
Total Flow Reset	Provided with Password Protection & Enable / Disable options
Batch Total (BT) Start	Auto with Delay / Manual in Front Key (any one user selectable)
Re-transmission Output (optional)	4 – 20 mA / 0 – 10 V (any one Factory Presetable)
Relay Output (optional)	2 Relay (5A rated) with individual Relay assignment setting
Communication Interface (optional)	RS 485 (2 wire) or RS 232 (any one Factory Presetable)
PC Software (optional)	Monitoring, Data logging, Report & Graph
Slave ID	1 to 32 (user selectable)(for RS 232 set Slave ID as 1)
Baud Rate(bps)	9600, 19200(user selectable)
Flow Rate Time Base	Seconds, Minutes, Hours (Selectable)
Sensor Supply	24 V DC / 100mA Max.
Power Supply	90 to 270 V AC, 50/60Hz
Operating Environment	0 to 50 Deg C / 20 to 95 % RH Non Condensing

Mounting	Panel Mounting
Dimension	96 x 96 x 85 mm

Note: Due to continuous product improvements, Published specifications may change with out notice



SANSEL INSTRUMENTS AND CONTROLS

SANSEL CALIBRATION LABORATORIES

ISO/IEC 17025 Accredited Calibration Laboratory by NABL CC - 2879

(Thermal, Mechanical, Electro-Technical, Dimension Parameters)

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