

Flow Controller

Flow Indicator, Controller & Totalizer

Model: FI 594



INTRODUCTION

FI 594 Flow Indicator, Controller & Totalizers are extremely versatile indicators that can be used with a variety of Pulse output flow sensors. These indicators offer extreme reliability and low cost for flow measurement. FI 594 Flow indicator & Totalizers can be used with Paddle Wheel & any type of pulse 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 In-line calibration are standard. All the parameters are saved in a non volatile EEPROM memory which doesn't need any external battery. There is an 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 Factor for Various Flow Sensors. Selectable Units & Resolution.

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 & Batch Total
- ✓ $\pm 0.1\%$ of full scale Accuracy
- ✓ Micro controller signal processing
- ✓ Programmable Flow Rate Factor
- ✓ Selectable Units
- ✓ Selectable Resolutions
- ✓ User Front End Calibration
- ✓ Compact size
- ✓ Voltage (or) Current Analog Outputs

Technical Specifications

Flow Indicator, Controller & Totalizer

Model	FI 594
Display	16 Character X 2 Line LCD Display
Input	Pulse
Accuracy at 25°C	$\pm 0.1\%$ of FS
Display Modes	Flow Rate (FR) , Total Flow (TF) & Batch Total (BT)
Display Range	0 - 99999(5 Digits) for FR , 0 - 99999999(8 Digits) for TF
FR Resolution	1 / 0.1 / 0.01 (any One Selectable)
TF Resolution	1 / 0.1 / 0.01 / 0.001 (any One Selectable)
Units	m ³ , Liter, Gallons (Selectable)
Flow Rate Time Base	Seconds, Minutes, Hours (Selectable)
Password Protection	Provided for User & Supervisor separately
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)
Relay Output (optional)	2 Relay Output (5A rated)with Individual Assignment settings for FR, TF & BT)
Retransmission Output (optional)	Opto isolated 4 - 20mA or 0 - 10V DC (any one factory Presetable)
Communication	RS 485 (2 wire) / MODBUS RTU / RS 232 (any one factory Presetable)
Slave ID	1 to 32 (user selectable)(for RS 232 set Slave ID as 1)
Baud Rate(bps)	9600, 19200(user selectable)
PC Software (optional)	Monitoring, Data logging, Report & Graph
Sensor Supply	5 or 12 V DC / 100mA Max. (any one factory Presetable)
Mounting	Panel Mounting
Dimension	96 x 96 x 85 mm
Operating Environment	0 to 50 Deg C / 20 to 95 % RH Non Condensing

Power Supply	90 to 270 V AC, 50/60Hz
Weight	350 grams (Approx.)

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

Flow Sensor

Working Voltage	4.5 to 24V DC
Max Rated Current	8mA
Withstand Current	15mA
Working Temp.	Up to 120°C
Storage Temp	25 to 65°C
Humidity	35% to 90%
Material	POM, PA66+GF30
Pulse Output Protn.	50 ± 10%

Sensor Output

High Electric Level	Less than 4.5V DC (Input Voltage 5V DC)
Low Electric Level	Higher than 0.5V DC (Input Voltage 5V DC)

Pipe size selection chart

Pipe Size	6mm	½" BSP	¾" BSP	1" BSP	1¼" BSP
Flow Range MIN.	0.15LPM	0.5 LPM	1 LPM	1 LPM	5 LPM
Flow Range MAX.	3 LPM	30 LPM	60 LPM	60 LPM	120 LPM
Accuracy	0.1%FSD	1.0 %FSD	2.0%FSD	2.0%FSD	2.0%FSD
Working Pressure	0 -5 bar	0 -12 bar	0 -12 bar	0 -12 bar	0 -12 bar
MAX. Pressure	8 bar	15 bar	15 bar	17 bar	17 bar
Number of Pulse	2400P/L	450 P/L	330 P/L	250 P/L	312 P/L

Note: For Other Ranges and Various Fluid application ask for specific catalogue.

6mm pipe size



½" BSP pipe size



¾" BSP pipe size



1" BSP pipe size



1¼" BSP pipe size



SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES

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

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

1 / 46 , 3rd Main road, Ganga Nagar, MMDA Colony , Maduravoyal , Chennai - 600 095. INDIA

☎ +91 44 2378 3951, ☎ +91 72999 72085 / 86 / 93, ☎ +91 98401 49928 ✉ enquiry@ sansel.net

🌐 www.sansel.net

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