

FLOW RATE INDICATOR / TOTALIZER

SMOOTH FLOWMETERS

Model - 7000 FRTD



Features :

- Microprocessor Based Flow Indicator / Totalizer
- Bright RED LED Display (0.3 inch)
- 8 Digit LED – Flow Rate
- 8 Digit LED – Total
- 3 Digit Decimal Point (Programmable)
- Pulse Input from Flowmeter
- 10 Point K-Factor Linearization
- 4-20mA Analog Output
- RS485 MODBUS RTU Communication
- 2 Relay Output (5A) for Alarm / Batching
- Front Keypad Programmable
- NVRAM Retains Data & Programming on Power Failure
- IP65 Front Protection, RoHS Compliant
- Standard 1/8 DIN Panel Mounted Enclosure
 - Panel Cutout Size (92 x 92 mm)



Bright LED Display



4-20mA Output



RS485 MODBUS



Relay Output



IP65 Protection

Pulse Input :

Accepts pulses from Turbine Flowmeter, PD Meter, Magnetic Pickup, Open Collector, Proximity Sensor, etc.

Lockout :

The unit program and presets can be protected with a Lock code to prevent unauthorized front panel changes. This code can be assigned with a maximum of 4 digits and is user selectable.

Reset Options :

The entire unit, i.e. all counters and control outputs, or Counter A, Counter B, Total and Batch can be reset from front panel key or through remote pulse.

Serial Communication :





RS485 MODBUS RTU for remote monitoring and data acquisition.

Specification :

Power Supply	: 230 VAC ± 10% (50 / 60 Hz)
(Optional)	: 24 VDC
Power Consumption	: < 10 VA
Display	: 0.3 inch Bright RED LED
Flow Rate Display	: 8 Digit
Total Display	: 8 Digit
Decimal Point	: 3 Digit (Programmable)
Input Type	: Pulse Input
Input Signal	: NPN / PNP / Potential Free
Input Frequency	: 0 – 5 KHz (Typical)
K-Factor Linearization	: 10 Point
Analog Output	: 4 – 20 mA
Communication	: RS485 MODBUS RTU
Relay Output	: 2 Nos. Relay (5A @ 230 VAC)
Alarm Type	: High / Low Alarm
Housing	: ABS Enclosure
Protection	: IP65 (Front)
Operating Temp.	: 0 to 55 °C
Storage Temp.	: -10 to 70 °C
Humidity	: <95% RH (Non Condensing)
Mounting	: Panel Mounted
Panel Cutout Size	: 92 x 92 mm
Overall Dimensions	: 96 (H) x 96 (W) x 110 (D) mm
Weight	: Approx. 450 gm

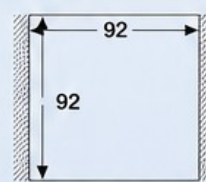
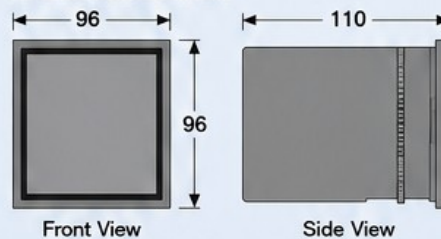
Function Keys :

The 7000 FRTD has 4 keys. The table below give a brief description of the keys and their functions.

Key	At run time	In program mode
	Enter PROG mode	Toggle between menus
	View key to scroll between selected parameters	Left key to shift digits in numerical entry / character in message mode
	–	UP key to increment digit / character selection
	–	Save changes and proceed Unit comes out of programming at any level

Dimensions :

All dimensions are in mm.



Panel Cutout

TERMINAL DESIGNATIONS :

TERMINAL DESIGNATIONS :

- 01 – Main L
- 02 – Main N
- 03 – Earthing \perp
- 04 – Relay - A
- 05 – Common
- 06 – Relay - B
- 07 – 24 VDC +
- 08 – 0 VDC
- 09 – 4-20mA + (A)
- 10 – 4-20mA + (B)
- 11 – Ground
- 12 – Reset Input
- 13 – Pulse Input A
- 14 – Pulse Input B
- 15 – Ground

