

DIGITAL FLOW METER



Our digital flow meter necessarily has a flow sensor with a magnetic multi-bladed spinning rotor (impeller) mounted inside at right angles to the flow. The rotational speed of the impeller is proportional to the velocity of fluid. The pulse generated is transmitted and converted into a volumetric measurement. Our digital flow meters are individually calibrated to give reliable flow measurement.



KEY ATTRIBUTES

- Digital Flow Meter measuring flow rate from **0.05 m³/hr to 500 m³/hr**
- Optional computer interface with **RS 485** or **4-20mA** output
- **DUAL SENSOR**, dual line, single meter

OUR METER FUNCTIONS AS

- **BATCHER & TOTALISER**
Relay gets energized after a fixed quantity of water passes through the sensor. The batcher has an auto reset, manual reset and dual relay operation facility. Batch quantity counts downwards till zero value
- **FLOW COMPARATOR**
The meter is supplied with two sensors for RO permeate and inlet/ reject line. The meter displays both the flow rates and also calculates percentage recovery.
- The setting is done on **PERCENTAGE RECOVERY**
If plant recovery is increased by the client to get more permeate, plant will trip thereby safeguarding expensive membranes
- **RATE SWITCH MODE**
The relay is programmed to energize whenever actual Flow falls below the set value.
Display shows 'LOW FLOW RATE'
- **PULSER**
Meter can be configured to suit any metering/dosing pump
Chemical dosing can be done online proportional to flow.
- **OPTIONAL DATA LOGGER**
The flow meter is available with data logger option where flow rate & total flow with date & time is stored in a 2GB Memory card

INDICATOR FT- 650

| | |
|-----------------------|--|
| Physical dimensions | 105 x 105 x 120mm |
| Cut-out size | 92 x 92mm |
| Enclosure | Abs weather proof IP-65 |
| Mounting | Field / Panel |
| Supply power | 230 VA.C./ 110 VA.C./ 24 V (200mA) D.C. |
| Max. Total Count | 0-999999.9 m ³ / 0-9999999 litres |
| Accuracy | ± 2% FSD |
| Alarms/Control Relay | One. 5 A @ 230 V AC |
| Calibration/set point | Using front panel keypad |
| Input | From sensor |
| Output | Relay output for batch quantity 4-20 mA (optional) RS 485 (optional) |

APPLICATIONS

Beverage



Water Treatment



Pharma & Chemical



Dairy Plant



Bottling



Boiler



Cooling Tower



Available with:

FILTRA CONSULTANTS AND ENGINEERS LTD.

Gala No. 2 & 3, Ground Floor, Neminath Industrial Estate No. 2, Navghar, Vasai (East), Dist.: Palghar - 401 219
Tel.: +91 8691009127/26 Email: filtraw@gmail.com Website: www.ewaterreatmentindia.com



FLOW SENSORS

INSERTION TYPE



AVAILABLE RANGES FOR INSERTION TYPE:

| LINE SIZE | FLOW RANGE (m ³ /hr) | |
|-----------|---------------------------------|-----|
| | MIN | MAX |
| 40NB | 0.5 | 19 |
| 50NB | 3.5 | 35 |
| 65NB | 5 | 50 |
| 80NB | 9 | 90 |
| 100NB | 14 | 140 |
| 125NB | 22 | 220 |
| 150NB | 30 | 300 |
| 200NB | 50 | 500 |

• All dimensions are in mm.

* For larger than 8" line size sensors are available with Hot tab assembly for easy maintenance

SENSOR SPECIFICATIONS

| | |
|---------------------|----------------------|
| Sensor Body | Noryl |
| Impeller | PP |
| Shaft | Carbide |
| Bearing | Ceramic |
| Sensing Element | Hall effect I.C. |
| Maximum Pressure | 5 kg/cm ² |
| Maximum Temperature | 60°C |
| Accuracy | ± 2% of Full Scale |

FULL BORE TYPE



AVAILABLE RANGES FOR FULL BORE TYPE:

| RANGES (m ³ /hr) | 6 NB (1/4") | 20 NB (3/4") | 25 NB (1") | 50 NB (2") |
|-----------------------------|-------------|--------------|------------|------------|
| FLOW RANGE MIN. | 0.05 | 0.1 | 0.25 | 1.0 |
| FLOW RANGE MAX. | 0.50 | 2.5 | 8.00 | 30.00 |
| END CONNECTIONS | BSPM | BSPM | BSPM | BSPM |
| FACE TO FACE | 88 | 88 | 205 | 260 |

KEY ATTRIBUTES

- **INEXPENSIVE & ACCURATE**
- **All PLASTIC** wetted parts
- **EASY TO INSTALL AND MAINTAIN**
- Each sensor calibrated with fitting for **K FACTOR (ml/pulse)**
- **HIGH AMPLITUDE OUTPUT** signal from sensor eliminates needs of retransmission upto 100 meters.
- **CERAMIC BEARING** for superior low flow performance
- Threaded housing allows **FIELD MAINTENANCE**
- Insertion type sensor also available with **SOLVENT CEMENTABLE ADAPTORS**
- **SENSOR CAN BE USED DIRECTLY WITH PLC OR DATALOGGER**

AVAILABLE FLOW FITTINGS

NOTE: FITTINGS AS PER ASTM/ DIN STANDARDS



FLANGED FITTINGS



PVC TEES



SS ADAPTER



PVC ADAPTER

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