

DIGITAL GAS FLOW METER



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Models available:

- DFM-01
- DFM-02
- DFM-03
- DFM-04
- DFM-05
- Glass Soap Bubble Flow Meter

Digital Gas Flow Meter



ISO 9001:2000



DFM-01
DFM-02
DFM-03



DFM-04



DFM-06



DFM-05

Technical Specifications :

- Flow Range : DFM-01 : 1 ml/min. to 50 ml/min. with least count of 0.1 ml/min
DFM-02 : 5 ml/min. to 500 ml/min. with least count of 1 ml/min
DFM-03 : 200 ml/min. to 2000 ml/min. with least count of 1 ml/min
DFM-04 : 1 ml/min. to 500 ml/min. with least count of 0.1 ml/min (auto range)
DFM-05 : 1 ml/min. to 1000 ml/min. with least count of 0.1 ml/min (auto range)
DFM-06 : 10 ml/min. to 400 ml/min. with least count of 1 ml/min (auto range)
- Accuracy : $\pm 2\%$ of Reading, ± 1 Digit
- Power Supply : 230 V AC, 50 Hz, 10W
- Resolution : 0.1 ml/min. & 1 ml/min
- Dimensions : DFM-01 : 27 cm (H) x 13 cm (W) x 10 cm (D)
DFM-02 : 27 cm (H) x 13 cm (W) x 10 cm (D)
DFM-03 : 27 cm (H) x 13 cm (W) x 10 cm (D)
DFM-04 : 25 cm (H) x 16 cm (W) x 4 cm (D)
DFM-05 : 17 cm (H) x 7 cm (W) x 3.5 cm (D)
DFM-06 : 20 cm (H) x 10 cm (W) x 4 cm (D)
- Optional Attachment : Battery Operated Rechargeable System



Glass Soap Bubble Flow Meter

Salient Features :

- Direct Digital Readout
- Microcontroller Based
- Digital Display of LED/LCD
- Highly Accurate and fast readout
- Useful for measuring any gas flow rate specially for G.C. & Analytical Instruments.
- Easy to Operate
- Free of Operational & Human errors
- DFM-01, 02, 03 & 04 - Table Mounting (Soap Solution based)
- DFM-05, DFM-06 - Portable (direct measurement)

Principle :

The DIGITAL FLOW METER is based on the classical method viz. Soap film method. The instrument is automated by using Microcontroller which provides highly accurate measurement and direct digital read out of gas flow rate. The time required for the soap film to pass through a fixed known volume is measured. The soap film is sensed by IR sensors. When the soap film passes through first sensor, it activates the timer of Microcontroller. Timer is stopped when the film crosses the second sensor. The flow rate is then calculated by Microcontroller and instantly displayed in ml/min. Where as DFM-05 & DFM-06 are direct flow measurement based & battery operated.



Rotameter is used to measure flow for different gases.

Body: Acrylic body or glass body with aluminium encased with appropriate float as per flow and gas requirement.

Size: Standard size available is 6" - 8" length with needle valve

Inlet & outlet connection: Back side with 1/4", 1/8", hose connection with panel mounting, table mounting stand are also available.

Range: Any range in LPM or ml/min or LPH

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