



SMART INSTRUMENTS COMPANY PVT. LTD.



SMART FLOW 20/21/22

DIGITAL GAS FLOW METER

Features :

- ◆ Direct Digital Readout
- ◆ Micro-Controller Based
- ◆ Highly Accurate and Fast
- ◆ Useful for measuring any Gas Flow specially in G. C.
- ◆ Easy to Operate
- ◆ Free of Personal Errors

Specification :

Range	: Smart Flow 20 : 5 cc/min to 500 cc/min Smart Flow 21: 0.5 cc/min to 45 cc/min Smart Flow 22 : 200cc/min to 2000 cc/min
Accuracy	: $\pm 2\%$ of Reading, ± 1 digit
Power Supply	: 230V AC, 50Hz, 2W
Resolution	: 0.1 cc/min for Smart Flow 20 0.01 cc/min for Smart Flow 21 1.0 cc/min for Smart Flow 22
Dimensions	: 27cm(H) x 13 cm(W) x 10 cm (D)

Principle :

The **SMART FLOW** is based on the classical method viz. soap film method. The instrument is automated by using Micro-controller 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 Micro-controller. Timer is stopped when the film crosses the second sensor. The flow rate is then calculated by Microcontroller and instantly displayed in cc/min.

Our Other Product Range

- **BET Surface Area Analyser**
- **True Density Meter**
- **Tap Density Meter**

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