



**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:

<b>Range</b>	: 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
<b>Accuracy</b>	: $\pm 2\%$ of Reading, $\pm 1$ digit
<b>Power Supply</b>	: 230VAC, 50Hz, 2W
<b>Resolution</b>	: 0.1 cc/min for Smart Flow 20 0.01 cc/min for Smart Flow 21 1.0 cc/min for Smart Flow 22
<b>Dimensions</b>	: 27cm(H)x13cm(W)x10cm(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

## SMART INSTRUMENTS COMPANY PVT. LTD.

F-6/7, Shree Industrial Estate, Behind Ramchandra Talkies,  
V. P. Road, Dombivli (East). Dist. Thane.  
Maharashtra. [INDIA] Pin - 421 201.

Tel. : 91 - 251 - 280 1123 Telefax : 91 - 251 - 247 2203

**E-mail** : [smait\\_co@bsnl.in](mailto:smait_co@bsnl.in) / [smartinstrument@vsnl.net](mailto:smartinstrument@vsnl.net)

**Web** : [www.smartinstrument.com](http://www.smartinstrument.com)