



DIGITAL FLOW METER

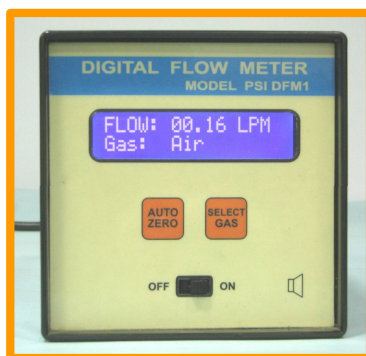
Available Models

PSI-DFM-1-PM-L, PSI-DFM-1-PM-M, PSI-DFM-1-PM-H
PSI-DFM-1-HH-L, PSI-DFM-1-HH-M, PSI-DFM-1-HH-H

Accurate flow measurement is of fundamental importance in Gas Chromatography, air pollution sampling, gas metering and other industrial applications. Wrong flow measurements can lead to misleading results in respect of concentration of air pollutants, which in turn could result in health risks and / or wasted man hours. Accurate and quick periodic calibration of flow measuring devices like rotameters and flow generating devices like sampling pumps is an important requirement.

Salient Features

- ☞ Easy to Operate
- ☞ Flow Accuracy $\pm 2\%$
- ☞ Various Flow Ranges
- ☞ Suitable for Various Gases
- ☞ Fully Portable
- ☞ Wide Measuring Single Range
- ☞ Measures Flow from Pressure or Vacuum Source



Digital Flow Meter Model PSI-DFM1-PM and PSI-DFM1-HH afford accurate and fast flow measurements in air sampling applications. The two models are distinguished only in enclosure specifications i.e. PSI-DFM1-PM is panel mountable while PSI-DFM1-HH is hand held type and are otherwise similar in functionality. Each of these models is available in three user specified ranges, namely Low, Medium and High. In this text, all these models will be simply referred to as DFM1.

DFM1 measures flow by measuring the differential pressure across an orifice. The pressure in turn is measured by a solid state pressure sensor. The orifice, the pressure sensor, the flow connections and the electronics are all housed in a single cabinet. The electronics is a microprocessor based unit which performs the tasks of interfacing with sensors, timing, computations and operator interface. The unit has a provision for G.C. users to select any of the gases i.e. Air, O₂, N₂, H₂, He, Ar / CH₄ and CO₂. The flow is automatically corrected for the properties of the gas. All instruments are provided calibrated reports with traceability to National standard

Detailed Technical Specifications :

Model	PSI-DFM1-PM-L PSI-DFM1-HH-L	PSI-DFM1-PM-M PSI-DFM1-HH-M	PSI-DFM1-PM-H PSI-DFM1-HH-H
Specifications			
Measuring Range	5.0 - 400.0 cc / Minute	0.10 LPM - 5.00 LPM	0.50 - 20.00 or 5.0 to 80.0 LPM
Accuracy	$\pm 2\%$ of Full Scale		
Display	32 character Alphanumeric backlit LCD Module		
Keys	Auto Zero, Gas Selection		
Flow Connections	Ferrules unions suitable for 4/6 mm tubing		
Power supply	230V AC, 50Hz. (for PM) and 4x1.5V Type AA Dry Cells (for HH)		
Cabinet	96 x 96 x150 mm (for PM) and ABS Plastic 200 x 100 x 40 mm (for HH)		

Accessories

AC Adaptor, Filter cartridges, Carrying case / bag

Related Products

Air Flow Calibrator PSI-AFC-1L, PSI-AFC-1M, PSI-AFC-1H
Top Loading Orifice Calibrator Model PSI-TLOC1 & PSI-TLOC2
Digital Orifice Flow Calibrator Model PSI-OFC1, Model PSI-OFC2,
 Model PSI-OFC3

Low Flow Digital Calibrator Model PSI-DFC-1L
LFE Gas Flow Calibrator Model-PSI-LGFC-1

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