



DIGITAL LOW FLOW CALIRATOR

Available Model:- PSI-DFC-1L

Calibration is the process of comparing a measurement device against an equal or a better standard to verify the closeness of the measurement device to the standard. The standard instrument, commonly called a calibrator, is generally required to be more accurate than the instrument under calibration. Calibrators are characterized by high accuracy, reproducibility, high reliability and stability.

In order to ensure that the accuracy of the measurement stays within the claimed specifications, calibration of flow (also pressure and temperature) measuring instruments needs to be carried out on a periodic basis, normally once a year

Salient Features

- Primary Standard
- Flow Accuracy $\pm 2\%$ of Reading
- Auto Ranging
- Fully Portable
- Tracks Multiple Bubbles
- Average Mode
- Wide Measuring Range
- Measures Flow from Pressure or Vacuum Source



Model PSI-DFC-1L is an easy-to-use air flow calibrator which can be used for accurately calibrating low flow air sampling pumps rotameters, digital flow meters etc. quickly and reliably with accurate and reproducible results. It also finds application in flow measurement in Gas-Chromatography systems.

Model PSI-DFC-1L employs two sets of IR transmitter-receiver pairs for detection of the presence of a liquid soap bubble in a glass flow cell. The flow is computed from time of flight of the soap bubble between these two fixed sets of sensors.

Model PSI-DFC 1L comprises of a highly precise glass flow-cell, two sets of IR sensors, an electronics unit, and an arrangement for bubble formation. The bubble formation process is very simple and comprises just pressing of the bulb to raise the level of liquid soap above the gas opening. The electronic unit is a microprocessor-based unit which performs the tasks of interfacing with IR sensors, timing, computations, and operator interface.

Flow Measuring Range

Detailed Technical Specifications:

Flow Measuring Range	From 1.00 cc/min to 500 cc/min auto ranging
Flow Sensor	Optically tracked Soap bubble
Flow computation methodology	Volume \div Time of flight of soap bubble
Accuracy	2 % of Full Scale
Display	16 character alphanumeric backlit LCD Module
Operating Keys	2 Nos.
Key Functions	Average, Reset
Power Supply	6 VDC through a adaptor for 110 230 V AC, or Optional Built in rechargeable Li ion Battery with external Charger
Dimensions & Weight	23 cm (H) x 15cm (W) x 14cm (D) Wt. 1.25 Kg.

Accessories:

Soap solution for Digital Flow Calibrator, Filter cartridges, Carrying case / bag

Distributed and supported by

INDUSMATION LLC

Engg. & Marketing Off: 3837 Pine Valley Dr. Plano, TX 75025 USA

Phone: 631-901-8857 Email: info@indusmation.com

www.indusmation.com

Industrial process and emission control experts