Telelin INSTRUMENTS (INDIA) OUR MOTO : QUALITY INSTRUMENTS & CUSTOMER SATISFACTION OUR EXPERIENCE : SERVING TO INDUSTRIES SINCE 1978 **INSTRUMENTS (INDIA)**

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DIGITAL FLOW CALIBRATOR



The Digital Flow Calibrator combines the simplicity & versatility of a soap film bubble meter with the speed and accuracy of a microprocessor. hWith handsfree operation, you can still see the bubble, but you also have precision of a digital display with accuracy of a guratz clock. No more tedious bubble formation, bubble watching, timing & flow-rateltime calculation. The DFC-1 accurately calibrates airsampling pumps (vacuum or pressure), rotameters, orifices etc qu[ckly & reliably with accurate & reproducible results.

FEATURES

- Primary Standard
- Flow Accuracy ±2%
- Wide Measuring Range
- Tracks Multiple Bubbles
- Auto Ranging
- Single or Average Mode
- Run or Hold Mode
- Auto Shut-off

- Multi Function Self Diagnostic for Error free Operation
- Automatic Bubble-Feed for . hand~-free Operation
- Adjustable Glass Flow Cell for faster results at low flows
- Measures flow from pressure or Vacuum Source
- Field Replaceable Glass-Flow Cell
- Fully Portable
- Mains or Battery Operated
- Optional Portable Printer for Permanent Records.

PRINCIPLE OF OPERATION

The, DFC 1 gas flow calibrator .operates on the principle of traditional soap film flow meter which has . been automated with the use of high technology infrared sensors, quartz timing & microprocessor intelligence to provide instant digital read out of gas flow rates. A soap bubble is used to trace the gas flow through a fixed volume high precision glass flow-cell. When the liquid soap bubble passes through the first sensor, it activates a quartz timer, which stops when the soap bubble passes through the, second sensor. The, microprocessor then calculates the flow rate & instantly displays it on a liquid crystal display.

SPECIFICATIONS

Measuring Range	:	1 .0 cc/min to 5.00 'Ipm with Auto Ranging faCility ;to cov~r full scale range of 199.9 ml!min., 1999 'ml/min., & 5.00 Ipm.
Dispaly	:	$3 \ \& 1/2$ digit Liquid Crystal Display with additional indication of LOW-BAT and various Self-Diagnostic System-Errors. ON
Function	:	ON RESET - Key to reactivate the system after Auto-, Shutoff (in 2 minutes when not in use)
		MULTI SINGLE - Modes to effect the measurement continuously for multiple bubble or to limit it to the first bubble.
		AVERAGE - Mode to average the last four readings.
Accuracy	:	± 2010 of Reading
Flow Cell	:	Precision, Small-Volume Glass flow cell that is vertically adjustable to provide faster results for Low-Flow applications. It also accepts any type of soap solution. However for higher flow measurement, we recommend our Standard-Solution .
Automatic Buble Formation	:	This innovative bubbl~ formation mechanism provides adjustable and continuous stream of bubbles for hand free operation. A large reservoir of soap solution provides long uninterrupted ope~ation without cumbersome process of re-filling after every few minutes.
Power	:	Mains Operated Model - 230 V AC Battery, Operated Model - 6 V Dry Cell or
		• ON indication on Front Panel. Rechargable batteries with Optional Charger.
Dimensions	:	20 (W) x 15 (D) x 23 (H) ems.
Printer	:	Optional Impact type, Numeric or Alpha-numeric compact, portable Printer for permanent record.
Carrying Case	:	Optional corrosion resistant carrying case to accomodate, $DF \sim -1$, soap solution, printer & battery charger.
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