

DryCal® DC-Lite



- **Fast**
- **Simple Push-button Operation**
- **Hands-Free Auto-Mode**
- **Compact**
- **NIST-Traceable**
- **Patented Graphite Piston Assembly**



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Primary Calibrator for Flow Verification & Field Audits

The innovative DryCal DC-Lite dry flow meter provides users with a primary flow standard for industrial hygiene, environmental, and laboratory applications while eliminating the need for soap solutions. Combining patented, near-frictionless piston technology with advanced photo-optic sensing, the DC-Lite provides volumetric flow readings quickly and accurately, while remaining immune to flow source pulsation.

Light, compact, the DC-Lite is housed in a small 5" x 5" x 2.75" case, and is easily field-portable. The DC-Lite can be used to accurately calibrate most commercially available industrial hygiene and environmental air samplers.

Each of the five flow range models is packed with a variety of popular user-conveniences, such as AC/DC operation, automatic shut-off, push-button read and auto-read, a large alphanumeric LCD, and a parallel printer port for printing to Bios' battery-powered thermal printer.

The DC-Lite's capabilities are significantly enhanced when used with its companion product, the Nexus data-logging module. The Nexus provides flow measurements corrected for standardized temperature and pressure, time and date stamping, employee and pump ID numbers and data-logging of up to 2,000 entries. The Nexus' RS-232 port enables DC-Lite's readings to be directly downloaded into a PC spreadsheet.

U.S. Patent 5,440,925.

DryCal® DC-Lite
Primary Flow Calibrator

DryCal® DC-Lite

FEATURES

Simple Operation

Provides the user with accurate volumetric flow readings with the push of a button.

Fast

Saves valuable time.

Hands-Free Auto Mode

Flow readings can be taken continuously in the Auto Mode, providing hands-free calibration.

Immune to Flow Source Pulsation

DC-Lite needs no in-line dampers.

NIST-Traceable

Dimensional and timing accuracy traceable to NIST standards.

Patented Graphite Composite Piston Assembly

Eliminates the inherent inaccuracies and mess associated with bubble soap.

Sealed Lead Acid Battery

Can be charged indefinitely. DryCal can be used while charging.

5-Minute Auto Shut-Off

Preserves battery life.

Alphanumeric Display (LCD)

Indicates flow rate, flow average and number of readings included in average, as well as battery charge level.

Built-In Leak Test

Quality assurance self-test allows user to periodically verify flow cell integrity.

Tested by National Standards Labs

- NIST
- The Japanese National Laboratory of Metrology
- The Netherlands Metrological Institute

CE Approved

Bios continuously seeks to improve its products and their characterization. Specifications are subject to change. Please contact Bios for most recent specifications.

SPECIFICATIONS

Size 5" W x 5" H x 2.75" D • 127 mm W x 127 mm H x 70 mm D

Weight 42 oz. • 1200 g

Flow Ranges | Air Flow Accuracy

Specifications based on averaged readings; lower limit is based on self-tested maximum leakage.

Model	Optimum Flow Range (1%)	Extended Flow Range*
L	10 mL/min–500 mL/min	1 mL/min–500 mL/min
ML	50 mL/min–2 L/min	5 mL/min–5 L/min
M	100 mL/min–7 L/min	10 mL/min–12 L/min
MH	200 mL/min–20 L/min	20 mL/min–20 L/min
H	500 mL/min–30 L/min	50 mL/min–30 L/min

*Contact Bios for extended flow range specifications

Battery System 6V rechargeable, sealed lead acid, 6–8 hours typical operation

AC Battery Charger | Power Adapter Wall-mounted, single station charger. Input: 100-120 VAC, 60 Hz; output: 12 VDC. (Optional input: 200-240 VAC, 50 Hz.; output 12 VDC.)

Operating Modes Single cycle, 10-readings, or auto-mode.

Temperature Range 0–55° C

Humidity Range 0–70% non-condensing

Printer Port Standard parallel (IBM Centronics, for printing to Bios' battery-powered printer.)

Warranty Product, 1 year; battery, 6 months.



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