

DryCal® DC-Lite



Primary Calibrator/ Piston Prover for Primary Flow Verification and Field Audits

The DryCal® DC-Lite is a revolutionary dry primary flow meter design that provides users with a primary flow standard for industrial hygiene, environmental and laboratory applications. The innovative DryCal® DC-Lite is immune to flow source pulsation without the need for in-line dampers. DC-Lite combines patented DryCal® near frictionless piston technology with advanced photo-optic sensing to obtain volumetric flow readings quickly and accurately. In keeping with all BIOS flow meters, it eliminates the need for messy soap film solutions.

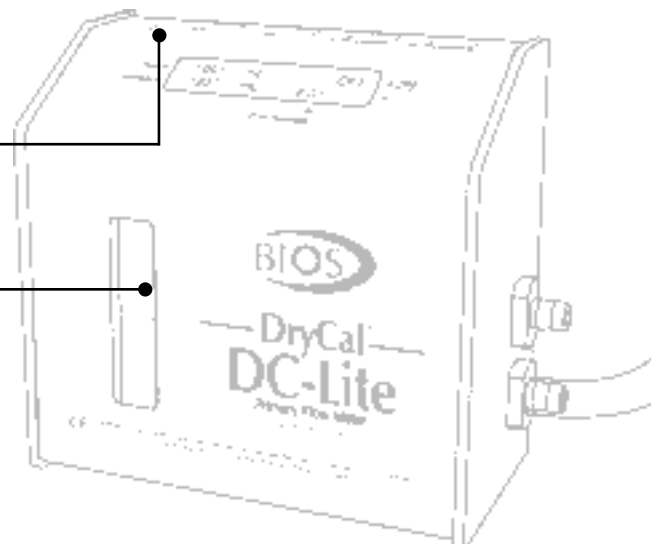
The DC-Lite is light, compact and low cost. Housed in a small 5" x 5" x 2.75" case, the DC-Lite fits easily into a slim briefcase for convenient transport.

Each unit is power-packed with a variety of popular user conveniences such as AC/DC operation, a large alphanumeric LCD, push-button read and auto-read, automatic shut off, and a parallel printer port that interfaces with most standard IBM® compatible printers.

The DryCal DC-Lite can be used to accurately calibrate most commercially available IH and environmental samplers.

US Patent 5,440,925

- Simple Push-button Operation
- Fast
- Hands-Free Auto Mode
- Compact
- NIST Traceable
- Dry Piston Technology



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**DryCal® DC-Lite
 Primary Flow Calibrators**

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 develops powerful technologies for flow measurement and sampling of airborne chemical hazards. The performance features found in the BIOS line of equipment offer convenience, versatility and the assurance of valid data.

Visit our website at: www.biosint.com for:

- Specifications
- Features
- Manuals
- Pricing

SPECIFICATIONS:

Size: 5" x 5" x 2.75" / 127 mm x 127 mm x 70 mm

Weight: 42 oz. / 1200 g

Flow Ranges/ Air Flow Accuracy:

Model	Optimum Flow Range (1%)	Extended Flow Range*
L	15-500 ml/min.	1 ml/min - 500 ml/min
ML	50 ml/min.- 2 L/min.	1 ml/min - 5 L/min
M	100 ml/min.-7 L/min.	10 ml/min - 12 L/min
MH	200 ml/min.-17 L/min	10 ml/min - 20 L/min
H	500 ml/min. - 30 L/min.**	30 ml/min - 30 L/min

Specifications based on averaged readings: lower limit is based on self-tested max. leakage.

*Contact BIOS for application assistance. ** 1.25% accuracy 17-30L/min

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

AC Battery Charger/ Power Adapter: Wall- mounted, single station charger. Input: 100 to 120 VAC, 60 Hz., Output: 12 VDC (Optional; Input: 200 to 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, compatible with most printers)

Note: Not compatible with printers that require Microsoft® Windows™

Warranty: Product, 1 Year; Battery, 6 months

Note: The recertification program offered by BIOS is elective and is not included as a warranty item.

All specifications are subject to change. Please contact BIOS or visit our web site at: www.biosint.com, for the most current information.

Our Companion Product

DryCal® NEXUS Standardization and Data Logging Module

When used with the DC-Lite for checking air flow rates, the NEXUS provides volumetric flow measurements and flow measurements corrected for standardized temperature and pressure.

- NIST traceable temperature and pressure correction.
- Time and date stamping / data storage capability.
- Parallel/ RS-232 ports for printer and PC interface
- Continuous auto-mode for hands-free operation.
- Power supplied from DC-Lite or DC-Lite AC adapter.



DryCal® DC-Lite shown in-line with NEXUS module



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