

DryCal® DC-Lite



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



Bios International Corporation
 10 Park Place, Butler, NJ 07405 USA
Phone (973) 492 8400
Fax (973) 492 8270
Toll Free (800) 663 4977

Web www.drycal.com
Email sales@drycal.com

Primary Gas Flow Calibrator for Flow Verification

Bios International is the world leader in portable dry piston technology, and nowhere is this more evident than with our DryCal DC-Lite primary gas flow calibrator. Building upon the success of its predecessors, the DryCal DC-1 and DC-2, the popular, user-friendly DC-Lite is the ideal flow meter for a wide variety of industrial hygiene, environmental, and laboratory applications. Its high-speed measurements, combined with its compact size, field-portability, and affordable cost, make the DC-Lite the preferred, low-maintenance tool for $\pm 1\%$ per-reading volumetric calibrations. Available in five autonomous flow models, the DC-Lite covers a convenient measuring range, from 1 ml to 30,000 ml per minute.

Preparation-free and capable of quick, single measurements or hands-free operation through continuous measurements with averages, the DC-Lite reduces calibration time, increasing application efficiency. Optionally, its flow readings can be printed to our battery-powered, portable thermal printer, or downloaded into a PC spreadsheet with the aid of our parallel-to-serial converter.

Additionally, the power of the DC-Lite can be expanded through use of its companion product, the Nexus data-logging module. With the Nexus, the DC-Lite's volumetric flow measurements can be automatically corrected for standardized temperature and pressure conditions, time and date stamped, stored in non-volatile memory, or downloaded into a PC spreadsheet.

U.S. Patent 5,440,925 .

Form MK03-3 A

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

DryCal® DC-Lite

SPECIFICATIONS

FEATURES

Simple Operation

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

Fast

Quick setup and rapid readings 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

No need for in-line dampers.

Patented Graphite Composite Piston Assembly

Eliminates the inherent inaccuracies and mess associated with bubble soap; no mercury seals.

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.

Parallel Port

NIST Traceable | CE Approved

We continuously seek to improve our products and their characterization. Specifications are subject to change. Please contact Bios, or visit our website for our most recent specifications

Form MK03-4 A

Size 5.25" H x 5" W x 2.75" D • 133 mm H x 127 mm W x 70 mm D

Weight 40 oz. • 1134 g

Flow Ranges | Air Flow Accuracy

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

Model	1% Optimum Flow Range	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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