

ML-500

±0.40% Accuracy Primary Flow Standard

- **Reliable** - 15 years of Proven DryCal[®] Technology
- **Accurate** - NVLAP-accredited; backed by ISO 17025, ANSI Z-540, NIST Handbook 150
- **Flexible** - Portable, modular design: integrated software easily customized to your needs
- **Convenient** - Push button simplicity; dry - no mercury or other liquids



Bios Met Lab[®] Series

The Bios Met Lab[®] Series of positive displacement primary standards provides a cost-effective, entirely "dry" means of precisely measuring gas flow while maintaining defensible, direct traceability to NIST.

Built with the latest composite materials - yet based on the piston prover platform that's been recognized for over a century - our Met Lab[®] Series enables you to perform fast, incredibly accurate flow measurements, with the confidence of Proven DryCal[®] technology.

Flexible Ways of Working

Met Lab's simple push-button operation and instant gas flow measurements require little user training and minimize user-interpretation - which means that multiple staff members can step in and perform precise calibrations at any time.

Bios Met Lab[®] ML-500

Model	Flow Range scc/min*	Accuracy Standardized	Accuracy Volumetric
ML-500-10	5-500	±0.40%	±0.25%
ML-500-24	50-5,000	+0.35%	+0.20%
ML-500-44	500-50,000	±0.45%	±0.25%

**Accuracy is stated as a percent of reading (including standardization, if applicable).
CE-Compliant**

*At gas pressure of 760 mmHg, and a gas temperature of 25° Centigrade with Standardization temperature set to 0° Centigrade.

Size

Device	Weight	Footprint (H x W x D)
ML-500	123 oz / 3500 g	13.5 x 5.25 x 11 in / 340 x 135 x 280 mm

ML-500 Specifications

Gas Compatibility:	Noncorrosive, noncondensing, noncombustible gases, less than 70% humidity
Flow Modes:	Pressure or suction
Temperature and Pressure Sensors:	In the flow stream
Reading Modes:	Single, Auto or User-Specified Burst
AC Adapter /Charger:	12V DC, >500ma, 2.5 mm, center positive, North American standard, others available
Battery System:	6V rechargeable, sealed lead-acid, 6-8 hrs typical operation
Inlet and Outlet Fittings:	1/4" ID Swagelok® compression fittings (1/8" fittings Model 3) (1/2" outlet fitting Model 44)
Ambient Temperature:	15-30° C
Storage Temperature:	0-70° C
Ambient Humidity:	0-70%, non-condensing
Operating Pressure (Absolute):	15 PSI
Display:	Backlit LCD
Data Port (for use with Optimizer Software):	Serial (RS-232)
Warranty:	Product 1 year, battery 6 months



Mesa's Butler, N.J. manufacturing facility (pictured above) is the only NVLAP accredited ISO 17025 laboratory serving the occupational health and safety industry. With the lowest gas flow measurement uncertainties of any commercial laboratory, Mesa provides you with the legal protections and peace of mind valued in today's litigious business environment.