

ML-500

±0.40% Accuracy Primary Flow Standard

- **Reliable** - Over 15 years of Proven Bios DryCal[®] Technology
- **Traceability** - NVLAP-accredited; 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



Mesa Met Lab[®] Series

The Mesa 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.

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 Bios 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.

Mesa 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):	Atmospheric, maximum pressure 15 PSIA
Display:	Backlit LCD
Data Port (for PC interface):	Serial (RS-232)
Warranty:	Product 1 year, battery 6 months



Mesa's Butler, N.J. manufacturing facility (pictured above) is our NVLAP accredited ISO 17025 laboratory.