Metrology Series DryCal 800

DryCal 800

The DryCal 800 positive displacement primary standards provides a cost-effective, entirely dry means of precisely measuring gas flow while maintaining defensible, direct traceability to NIST.

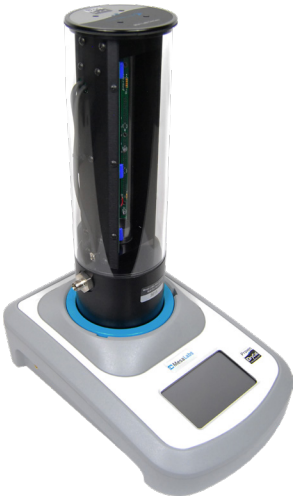
±0.15% Accuracy Primary Flow Standard
0.5 sccm to 100 slm Primary Flow Standard

The DryCal 800 enables you to perform fast, incredibly accurate flow measurements, with the confidence of Proven DryCal® technology.

DryCal 800's simple touch screen 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.

DryCal 800 Base:

- 4.3" resistive touch screen
- USB and RS-232 interfaces
- Firmware updates through communication port (no disassembly required)
- New high efficiency electronics with minimal heat generation eliminates a potential source of measurement uncertainty
- Compatible with all existing ML-800 flow cells and software
- Low profile design provides increased stability



DryCal 800 System:

- Reliable – Over 15 years of proven DryCal Technology
- Traceable – NVLAP-accredited, ISO 17025, ANSI Z-540, NIST Handbook 150
- Flexible – Portable, modular design with integrated software
- Convenient – simple, dry operation that requires no mercury or other liquids

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Model	Flow Range*	Standardized/ Volumetric Uncertainty	Weight	Dimensions
800-3	0.5-50 scc/min	±0.25% plus .002 sccm	80 oz / 2300 g	9.0 x 4.0 in / 229 x 102 mm
800-10	5-500 scc/min	±0.15%	85 oz / 2413 g	13.3 x 4.0 in / 337 x 102 mm
800-24	50-5,000 scc/min	±0.15%	86 oz / 2439 g	13.3 x 4.0 in / 337 x 102 mm
800-44	500-50,000 scc/min	±0.15%	88 oz / 2507 g	13.3 x 4.0 in / 337 x 102 mm
800- 75	1-100 slm	±0.15%	160 oz / 4535 g	14.8 x 5 in / 375 x 102 mm
Base			5 lbs / 2268 g	3.9 x 8.5 x 12.6 in / 99 x 216 x 320 mm

Measurement uncertainty is stated as a percent of reading (including standardization, if applicable) with a 95% confidence interval. (*k* = 2)

DryCal 800 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:	Output: 12V DC, 3A, 2.5 mm, center positive Input: North American standard, others available
Inlet and Outlet Fittings:	800-3: 1/8" ID Swagelok tube compression fittings 800-10,24,44: 1/4" ID Swagelok tube compression fittings (1/2" outlet fitting on -44) 800-75: 1/2" ID Swagelok tube compression fittings
Operating Temperature:	15-30° C
Storage Temperature:	0-70° C
Operating Humidity:	0-70%, non-condensing
Operating Pressure (Absolute):	Atmospheric, maximum 15 PSIA
Display:	4.3" resistive touch screen
Data Port:	Serial (RS-232) and USB
Warranty:	1 year

NVLAP®
NVLAP Lab Code 200661-0
Calibration

The Butler, N.J. manufacturing facility (pictured above) is Mesa Labs NVLAP accredited ISO 17025 laboratory.

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

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MK03-57 RevB

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