

Advanced Test Equipment Corp. www.atecorp.com 800-404-ATEC (2832)

Proven DryCal Technology, redefined. The Mesa DryCal 1500 SLM Primary Piston Prover 1500, our high flow primary piston prover.

It's everything you expect from Mesa. Liquid-free precision, delivered instantly.

The DryCal 1500 breaks all the rules of high flow primary gas flow standards. Verify up to 1500 standard liters per minute of gas flow – without a bell prover. Its bench-top design measures only 32W" x 34H" x 12D" and weighs just 90 pounds. Transport your DryCal 1500 on a moment's notice – by hand, or by air freight within a Mesa shipping container.

And it gets better. The DryCal 1500 doesn't require routine maintenance, or replaceable or consumable parts – just factory recalibration once each year.

Flexible Ways of Working

With the DryCal 1500, your calibration process is flexible – and always ready. Its push-button operation means reliable, reproducible results with minimal user-training, so any staff member can step in and perform precise calibration at any time.

- Reliable Over 15 years of Proven DryCal[®] Technology
- Traceable Calibration NVLAP-accredited; ISO 17025, ANSI Z-540, NIST Handbook 150
- **Portable -** May be moved within the lab, or shipped for annual recalibration
- **Simple** Automatic operation; no user interpretation or external calculations required
- PC Interface via RS-232 port

Customizing Your Calibrations

The DryCal 1500's navigation menu offers many customizable options to get you the results you need, in the format you prefer. Select the number of flow measurements in the average, from 1 to 100. Input gas Sensor Factors in order to scale your readings to match thermal mass flow devices being calibrated with surrogate gases.

Flow Ranges	15-1500 sL/min at 45 PSIA*
Uncertainty	<u>+</u> 0.45% of reading**
Weight	90 lbs / 41 kg
Dimensions (H x W x D)	32W" x 34H" x 12D"

^{*}At gas pressure of 760 mmHg, and a gas temperature of 25° centigrade with standardization temperature set to 21.1° centigrade.

User-Selectable Flow Units

Volumetric Flow
L/min cf/min
Standard Flow
sL/min scf/min
Pressure
mmHg PSI kPa
Temperature
°C °F

MesaLabs

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DryCal TECHNOLOGY

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

DryCal 1500

Mesa meets the highest quality assurance standards for gas flow measurement uncertainty, including industry-leading ISO 17025, ANSI Z-540 and NIST 150 laboratory accreditation by the National Voluntary Laboratory Accreditation Program (NVLAP) administered by the National Institute of Standards and Technology (NIST).

Mesa primary standards feature patented, Proven DryCal Technology supported by world-class laboratory accreditation, delivering unmatched precision and reliability.

Mesa DryCal 1500 Specifications

Data Cable: 1 meter, for use with data port

Data Port: RS-232 (serial), for PC interface

Display: Graphical LCD with backlight

Flow Measurement Cell: Integrated (all-in-one design)

Flow Measurement Style: Single, Continuous or Burst, with averaging function user-

selectable from 1 to 100

Flow Measurement Type: Volumetric (primary by nature), Standardized

Gas Compatibility:

Noncorrosive, noncondensing, noncombustible gases, less than

70% humidity

Humidity (Ambient): 0-70%, noncondensing

Inlet and Outlet Fittings: 1 1/2" Swagelok® compression tube fitting

Overpressure Release Fitting: 1/2" Swagelok® compression tube fitting

Storage Temperature: 0-70° C

External power module

Power: Input: 100-240 VAC, 1.6A (max), 50-60 Hz

Output: 12 VDC, 3.0A

Pressure (Operating Range): 14-45 PSIA

Pressure Transducer: 0-50 PSI (absolute), accuracy ±0.05% FS (typical), ±0.10% (max)

Purge Fittings: 1/4" Swagelok® compression tube fittings

RoHS Compliant: Yes

Temperature (Operating): 15-30° C

Pneumatic Valve Operation

Air supply: 80-100 PSI (not provided)
Fitting: 1/4th" Swagelok® compression

Warranty: 1 year





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

