

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



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

The DryCal 1020 breaks all the rules of high flow primary gas flow standards. Verify up to 500 standard liters per minute of gas flow – without a bell prover. Its bench-top design measures only 24W" x 30H" x 12D" and weighs just 90 pounds. Transport your DryCal 1020 on a moment's notice – by hand, or by air freight within a Mesa shipping container.

And it gets better. The DryCal 1020 doesn't require routine maintenance, or replaceable or consumable parts – just factory recalibration once each year.

Flexible Ways of Working

With the DryCal 1020, 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

TRACEABILITY

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

Proven DryCal® Technology, redefined. The Mesa DryCal 1020, our high flow primary piston prover.

Get to Know The DryCal 1020

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 1020 ASPECIFICATIONS

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; no additional flow models)
Flow Measurement Style:	Single, Continuous or Burst, with averaging function user-selectable from 1 to 100
Flow Measurement Type:	2.38 lbs (1.08 kg)
Flow Mode:	Pressure or suction
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:	0-70o C
Power:	External power module Input: 100-240 VAC, 1.6A (max), 50- 60 Hz, Output: 12 VDC, 3.0A
Pressure (Operating):	10 - 19.5 PSI (absolute)
Pressure Transducer:	0-20 PSI (absolute), accuracy +0.05% FS (typical), +0.10% (max)
Purge Fittings:	1/4" Swagelok® compression tube fittings
RoHS Compliant:	Yes
Temperature:	15-30° C
Valve Operation	Air supply: 80-100 PSI (not provided) Fitting: 1/4th" Swagelok® compression
Warranty:	1 year (battery 6 months)

CUSTOMIZING YOUR CALIBRATIONS

The DryCal 1020'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.by world-class laboratory accreditation, delivering unmatched precision and reliability.

+ Flow Ranges: 5-500 sL/min*

+ Measurement Uncertainty: +0.25% of reading**

+ Weight: 90 lbs / 41 kg

+ Dimensions (H x W x D): 30W" x 34H" x 12D"

*At gas pressure of 760 mmHg, and a gas temperature of 25° centigrade with standardization temperature set to 21.10 centigrade.

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

USER-SELECTABLE FLOW UNITS

+ Volumetric Flow: L/min cf/min

+ Standard Flow: smL/min scf/min

+ Pressure: mmHg PSI kPa

+/ Temperature? °C °F

