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
- Flexible – Portable, modular design with integrated software
- Convenient – simple, dry operation that requires no mercury or other liquids
DryCal 800 Specifications

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

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  
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

**Inlet and Outlet 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

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°C Centigrade with Standardization temperature set to 0°C Centigrade.