



## Primary Gas Flow Measurement

The ML One™ provides primary gas flow measurement with an uncertainty of 0.15% of reading and +/- .01 ccm across a flow range of 5 to 50,000 ccm.

### Product Capabilities:

- Corrosive gas capability
- Automatic flow range selection
- Faster readings
- Enhanced accuracy
- Greater portability

The ML One™ is an all-in-one measurement instrument for use in a laboratory or transported on a cart for factory floor measurements. It is designed to measure corrosive gases compatible with wetted path materials: (304-316 stainless steel, borosilicate glass, Teflon®, and AFLAS® elastometric). Three tubes sit horizontally in the instrument and are fitted with low mass - borosilicate glass pistons with a low friction coating that oscillate between two detectors to quickly and accurately measure gas flow rates.



### Benefits:

- Improved operational efficiency (work smarter and faster)
  - Less time changing cells
  - Faster readings
  - Less down time (by taking device to where it is needed)
  - More time for other job responsibilities
- Greater versatility (do more with a single device)
  - Multiple gases
- More confidence (one less thing to worry over)
  - Consistently defensible results
  - Bios performance history
  - Exceptional product support

### Key Technical Features:

- Innovative horizontal tube design - no 'dead piston time' for faster readings
- Diamond-based coatings for higher efficiency, longer use, reduced leakage concerns, reduced piston sticking
- Touch-pad operation - simpler, faster, more intuitive to operate

Operation of the ML One™ is intuitive and simple, a typical gas flow measurement only requires the user to connect the gas flow and touch measure on the screen followed by start.

## ML One™ Product Specifications

<b>Flow Range:</b>	5-50,000 sccm
<b>Low Tube:</b>	5-500 sccm
<b>Medium Tube:</b>	350-5,000 sccm
<b>High Tube:</b>	3,500-50,000 sccm
<b>Measurement Gas Pressure Range:</b>	Atmospheric Pressure +/- .5PSIA
<b>Temperature Range - Operating:</b>	15-30° C
<b>Temperature Sensors (One Per Tube):</b>	Accuracy +/- .03% (max), sensor is located in incoming gas stream
<b>Temperature Range - Storage:</b>	0-70° C
<b>Pressure Transducer:</b>	0-16 PSI (absolute), accuracy .05% FS
<b>Gas Compatibility / Wetted Path Materials:</b>	Gases compatible with (316/304 SS, borosilicate glass, Teflon, AFLAS elastomeric)
<b>Compressibility Factor Correction:</b>	User selection of gases to apply compressibility factor correction for non-ideal gas behavior
<b>Language Selection for Display:</b>	English, German, Spanish, Italian, Dutch
<b>Power Supply:</b>	External Power Module
	Input: 100-240VAC, 1.5A 50-60 Hz
	Output: 24VDC, 3.0A
<b>User Interface:</b>	Touch screen or via Commands through data port
<b>Data Port Connections:</b>	R2-232 and USB
<b>Inlet and Outlet Fitting:</b>	1/2 inch VCR fitting
<b>Approximate Measurement Interval:</b>	Flow dependent (.5-60 seconds) typical 2 seconds
<b>Dimensions:</b>	22" (56cm) w x 15" (38cm) h x 13" (33cm) d
<b>Weight:</b>	62 lbs - 28 kilograms
<b>Warranty:</b>	1 year
<b>ROHS Compliant:</b>	YES
<b><u>Measurement Uncertainty</u></b>	
<b>Standardized Flow:</b>	0.15% of reading and +/-0.01 sccm



Mesa's Butler, N.J. manufacturing facility (pictured above) is the only NVLAP accredited ISO 17025 laboratory serving the occupational health and safety industry. With the lowest gas flow measurement uncertainties of any commercial laboratory, Mesa provides you with the legal protections and peace of mind valued in today's litigious business environment.