ML One™

0.15% Accuracy Primary FLow Standard

ML One™

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 responsiblities
- Greater versatility (do more with a single device)
  - Multiple gases
- More confidence (one less thing to worry over)
  - Consistently defensible results
  - Mesa performance history
  - Exceptional product support

Key Technical Features:

- Innovative horizontal tube design - no 'dead piston time' for faster readings
- Low mass low friction pistons, 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.

Mesa Labs
10 Park Place
Butler, NJ USA 07405

MesaLabs

Tel: +1-973-492-8400
Toll Free: 800.663.4977
Fax: 973.492.8270
www.MesaLabs.com

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ML-One™ Product Specifications

Flow Range:	5-50,000 sccm
Low Tube:	5-500 sccm
Medium Tube:	350-5,000 sccm
High Tube:	3,500-50,000 sccm
Measurement Gas Pressure Range:	Atmospheric Pressure +/-.5PSIA
Temperature Range - Operating:	15-30° C
Temperature Sensors (One Per Tube):	Accuracy +/-.03% (max), sensor is located in incoming gas stream
Temperature Range - Storage:	0-70° C
Pressure Transducer:	0-16 PSI (absolute), accuracy .05% FS
Gas Compatibility / Wetted Path Materials:	Gases compatible with (316/304 SS, borosilicate glass, Teflon, AFLAS elastomeric)
Compressibility Factor Correction:	User selection of gases to apply compressibility factor correction for non-ideal gas behavior
Language Selection for Display:	English, German, Spanish, Italian, Dutch
Power Supply:	External Power Module
	Input: 100-240VAC, 1.5A 50-60 Hz
	Output: 24VDC, 3.0A
User Interface:	Touch screen or via Commands through data port
Data Port Connections:	R2-232 and USB
Inlet and Outlet Fitting:	1/2 inch VCR fitting
Approximate Measurement Interval:	Flow dependent (.5-60 seconds) typical 2 seconds
Dimensions:	22" (56cm) w x 15" (38cm) h x 13" (33cm) d
Weight:	62 lbs - 28 kilograms
Warranty:	1 year (battery 6 months)
ROHS Compliant:	YES
Measurement Uncertainty	
Standardized Flow:	0.15% of reading and +/-0.01 sccm
Volumetric Flow:	0.15% of reading and +/-0.01 ccm

NVLAP®
NVLAP Lab Code 200661-0

Mesa's Butler, N.J. manufacturing facility (pictured above) is our NVLAP accredited ISO 17025 laboratory.

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