
molbox1+


molboc-L


molbloc-S


molbox RFM

Gas flow standards

molbox1+ Flow Terminal

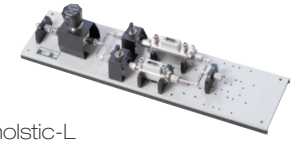
0.125 % of reading—lowest uncertainty for gas flow calibration.

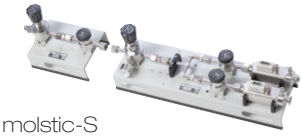
- Allows coverage of flow range from less than 1 sccm to over 5000 slm with a single user interface and transportable system
- Real-time flow measurements makes adjusting analog flow devices fast and easy
- Perform fully-automated flow calibrations using molbox terminal with COMPASS for Flow software
- Updated design

molboc-L Laminar Flow Element

Laminar flow elements for flow from 1 sccm to 100 slm.

- Traceable to primary gravimetric mass flow measurements
- Multiple gases supported
- Useable with existing molbox1+ and molbox RFM mass flow terminals and COMPASS software
- Integrated filter to protect against contamination
- Integral gas temperature conditioning and measurement
- No moving parts that cause pressure/flow fluctuations or threaten reliability


molstic-L


molstic-S

molbloc-S Sonic Nozzle Flow Element

Sonic nozzle based molblocs for gas flow up to 5,000 slm.

- Covers ranges up to 5,000 slm in N_2 and air
- Multiple gases supported
- Useable with molbox1+, or existing molbox1 and molbox RFM mass flow terminals and COMPASS software
- Proven critical flow venturi (sonic) nozzle operating principle traceable to primary gravimetric flow measurements

molbox RFM Reference Flow Monitor

Compact terminal for making mass flow measurements using molbloc-L and molbloc-S flow elements.

- Economical alternative to molbox1+ terminal
- ± 0.5 % of reading uncertainty
- Covers the flow range of 1 sccm to 100 slm with molbloc-L, and up to 5000 slm with molbloc-S
- 5141/5142/5144 kits feature molbox RFM, molbloc-L and other hardware for a complete calibration system
- No moving parts that cause pressure/flow fluctuations or threaten reliability

molstic Mounting Systems

Used to conveniently mount and protect molbloc elements, connect to units under test and provide flow and pressure control.

molstic-L used for molboc-L mass flow elements.

- Quick connector input
- 2 micron (0.5 micron for low flow) filter to protect the downstream components
- Adjustable regulator protects the molbox transducers

molstic-S used for molbloc-S mass flow elements.

- Available in 1/2 inch or 1/4 inch system plumbing sizes
- Integrated flow shut-off/metering valves


MFC-CB™


MFC Switchbox


GFS™

Gas Flow Automation Accessories

MFC-CB™ Control Box

Stand-alone unit for setting/reading analog mass flow controllers (MFCs) and mass flow meters (MFMs).

- Set and read 0 to 5 V or 4 to 20 mA on two (2) channels
- Complete front panel local control and remote operation via RS-232 and IEEE-488 interfaces

MFC Switchbox™

Supplies power and switches between up to five MFCs or MFMs on one molbox1+ or MFC-CB channel.

- Duplicates MFC channel without switching cables

Primary gas flow standard

GFS Dynamic Gravimetric Mass Flow Standard

True Primary Mass Flow Standard that makes the fundamental measurement of low gas mass flow rates practical.

- Covers the range of 0.2 to 200 mg/s in various gases (10 sccm to 10 slm N2)
- Measurements can be transferred to higher flow ranges using Successive Addition method
- Flow measurement uncertainty as low as ± 0.013 % of reading