



Analytical
Science & Technologies



Pressured for accurate
on-site O₂ analysis?

LPMS-MIOGI-Q Testing Kit

The MIOGI-Q is a gas based, portable analytical system capable of analyzing high pressure and cryogenic liquid samples for oxygen concentration. Cryogenic liquid and high pressure gas samples enter the isokinetic sampler and phase change to low-pressure gas. The reduced pressure sample flows to an electronic analytical cell, capable of quantifying oxygen content from 0% to 100% with a high degree of specificity and accuracy. The unit will also quantify inert gases (other than oxygen) with an accuracy of <0.1%.

Design Points:

- No electricity required
- Iso-kinetic sample vaporization with passivated pressure reduction
- Easy training, safest worker environment
- Calibration using room air
- ATA 300 compliant shipping case



LPMS-MIOGI-Q Testing Kit



FAQ

Does this technique meet MiL-PRF-27210, CGA, ASTM, USP?

- This technique exceeds the MIL, CGA, ASTM and USP standard for performance, sample stability and interferences for oxygen purity analysis over Orsat and Paramagnetic
- This technique is safer than the current recommended, high pressure technique

Is this safe to use on a cryogenic tank or trailer?

- Yes. This system was designed to grab samples from cryogenic trailers and customer tanks using the least amount of resources (no AC electricity, no costly liquid samplers)

How do you calibrate this system?

- There are 2 ways to calibrate the MIOGI-Q
- **Air:** Using room air, the MIOGI-Q can be calibrated in the field or on the spot in just a few minutes with no additional resources
- **100% O₂:** When known 100% oxygen cylinders are available, the MIOGI-Q can be hooked up to a regulated gas source for full-span calibration

How long does the cell last?

- In normal service, the cell will last >18 Months and guaranteed for 1 year
- The unit can be returned to ASTG for cell rehabilitation

What does MIOGI-Q stand for?

- Good Question! Miniaturized Inert and Oxygen Gas Identification and Quantification

Contact ASTG For Additional Information

Please contact us for additional information regarding the LPMS-MIOGI-Q Testing Kit and for information about other ASTG products and specialty gas services.

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