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Science & Technologies

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you've nailed  
the analysis cold



### LPMS-CRYO Testing Kit

Engineered as a portable, non-hazardous solution to Liquefied Cryogenic sampling, the LPMS-CRYO is designed to take safe, repeatable samples from any high pressure liquid or gaseous cryogenic source. Using best engineering practices, the LPMS system will phase change a liquid cryogenic sample to a low pressure gas sample, suitable for non-hazardous shipping. Patented sampling methods maintain representative sample characteristics for off-site analysis. Fast, Safe, Simple and Stable, the LPMS is the best in class sampling system for cryogenic samples.



### Design Points:

- No electricity required
- Iso-kinetic sample vaporization with passivated pressure reduction
- Easy training, safest worker environment
- ZDV quick connect for direct, low pressure sample can connection
- ATA 300 compliant shipping case
- Seamless integration to the AirBreather Analytical System

# LPMS-CRYO Testing Kit



## FAQ

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

- This technique exceeds the MIL, CGA and ASTM standard for performance, sample stability and interferences for Type I and Type II oxygen samples as well as medical gases, LiN, LAr and LOx
- This technique is safer than the current recommended, high pressure technique

### What are the DOT requirements for the Sample Can ?

- The sample can is NOT a pressure vessel. Therefore, there are no routine pressure test or hydrostatic testing requirements

### Can the Sample Can be re-used?

- The sample can is made of electropolished stainless steel and passivated with an inert coating. The can has an infinite lifespan when used properly

### What about the quick connect?

- The ZDV fitting uses an internal bayonet closure
- No reactive materials are in the gas path
- The bayonet is captured inside the metal sleeve (to prevent inadvertent opening)

### There are no pressure relief devices on the sample can. Is it safe?

- Yes, the system is designed to be used as a complete device
- It is not to be used in service pressures greater than 30 psig and has a MAWP > IOx
- Pressure relief devices are located on the sampling system (high pressure liquid relief, low pressure gas relief)
- A pressure regulator is installed with 30psig max outlet pressure
- The ZDV can only be used with mating ZDV's and cannot be hooked up to other devices

## Contact ASTG For Additional Information

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

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