

MULTI-STREAM PPT LEVEL GAS ANALYSIS

NEW

VeraSpec™ APIMS-SX5

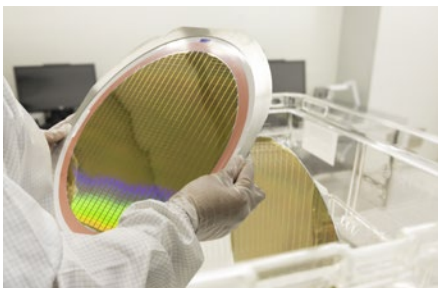
Elegant stream switching for monitoring ultra-high purity bulk gases:

- Real-time, multi-species monitoring for ALL Critical Impurities in bulk electronic gases including trace O_2 , H_2 , H_2O , CH_4 , CO , CO_2 , N_2 , Ar and more
- NEW! Optional automated stream switching capability with the SX5 stream switcher gas cabinet. Automatically cycle between up to five bulk gases!
- Unparalleled measurement range from PPT to 100% with unique dual-source ionization configuration
- Easy to use with integrated User Interface and scheduled automated calibrations
- Industry-best customer support and applications team



Key applications

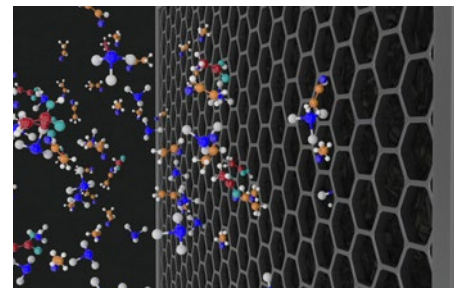
Semi Process Gas Monitoring



Electronic Gas Production



Purifier Performance



NEW Stream Switching with APIMS

Easily Monitor Multiple Bulk Gases with a Single APIMS System:

- Measure trace-level impurities in up to 5 bulk gases
- Bulk gases can be any user-specified combination of N₂, Ar, H₂, He, and O₂
- Fast stream switching time with proprietary gas cabinet
- Automatic or manual stream selection capabilities
- Individually specified purifiers for easy customer calibrations
- Automated purge function – Safe and Efficient!
- Integrated back-flow prevention – No Unwanted Gas Mixing!
- Integrated life safety systems, including LEL gas detection and exhaust flow safety switches



APIMS Analyzer with SX5 Stream Switcher

Trace Impurity*	Bulk Gas				
	N ₂	Ar	He	H ₂	O ₂ **
Hydrogen (H ₂)	150 ppt	100 ppt	50 ppt	n/a	500 ppb
Oxygen (O ₂)	10 ppt	10 ppt	10 ppt	10 ppt	n/a
Methane (CH ₄)	10 ppt	10 ppt	10 ppt	10 ppt	100 ppb
Water (H ₂ O)	10 ppt	10 ppt	10 ppt	10 ppt	100 ppb
Carbon Monoxide (CO)	50 ppt	10 ppt	10 ppt	50 ppt***	100 ppb
Carbon Dioxide (CO ₂)	10 ppt	10 ppt	10 ppt	10 ppt	100 ppb
Nitrogen (N ₂)	n/a	100 ppb	10 ppt	150 ppt***	100 ppb
Argon (Ar)	75 ppb	n/a	10 ppt	n/a	75 ppb

*Additional impurities are available. ** Impurities in O₂ are measured using the included EI source. ***Typically reported as a sum of (N₂+CO) concentrations.

System Information

The innovative design of the VeraSpec APIMS makes it easy to use and maintain for maximum uptime and utility.

- Dedicated sample introduction path for each bulk gas
- Gas-specific purifiers for calibration
- Automatic APIMS setting changes per gas for optimal sensitivity
- Gas cabinet design eliminates dead-legs or unneeded gas volume
- Automated purge sequences eliminate any gas mixing
- Dedicated exhaust lines incorporated for gas incompatibility
- Manual or fully automated calibration capabilities
- Safety functions and shutoff switches monitor APIMS and SX5 cabinets
- Touchscreen user interface and Extrel Questor5 process control software for manual or automated continuous gas monitoring
- SX5 gas cabinet display to verify system configuration and gas introduction settings
- Low system maintenance for <1/year calibration and preventative maintenance intervals

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