

MULTI-STREAM PPT LEVEL GAS ANALYSIS

**NEW**

# VeraSpec™ APIMS-SX5

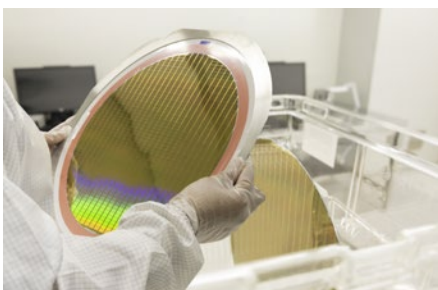
**Elegant stream switching for monitoring ultra-high purity bulk gases**

- Real-time, multi-species monitoring for ALL Critical Impurities in bulk electronic gases including trace O<sub>2</sub>, H<sub>2</sub>, H<sub>2</sub>O, CH<sub>4</sub>, CO, CO<sub>2</sub>, N<sub>2</sub>, 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

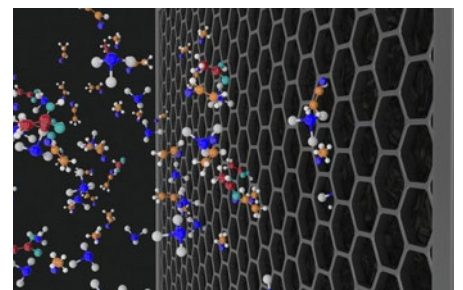
Semi Process Gas Monitoring



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 N<sub>2</sub>, Ar, H<sub>2</sub>, He, and O<sub>2</sub>

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 SX5 with Stream Switcher

Trace Impurity*	Bulk Gas				
	N <sub>2</sub>	Ar	He	H <sub>2</sub>	O <sub>2</sub> **
Hydrogen (H <sub>2</sub> )	800 ppt	100 ppt	1 ppb	n/a	500 ppb
Oxygen (O <sub>2</sub> )	10 ppt	10 ppt	10 ppt	10 ppt	n/a
Methane (CH <sub>4</sub> )	10 ppt	10 ppt	10 ppt	10 ppt	100 ppb
Water (H <sub>2</sub> 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 <sub>2</sub> )	10 ppt	10 ppt	10 ppt	10 ppt	100 ppb
Nitrogen (N <sub>2</sub> )	n/a	200 ppb	10 ppt	150 ppt	100 ppb
Argon (Ar)	200 ppb	n/a	10 ppt	50 ppt	75 ppb

\*Additional impurities are available. \*\* Impurities in O<sub>2</sub> are measured using the included EI source.

### 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

## GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

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REVOLUTIONIZING MEASUREMENT

**EVERYWHERE**