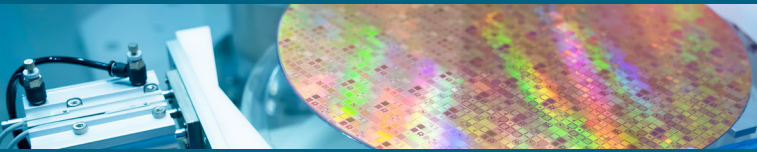


## Real-time Gas and Liquid Analyzers for UHP, Process and Laboratory Applications

### Mass Spectrometers & Optical Spectroscopy Analyzers



### Electronic Gas

#### Applications:

- Bulk gas monitoring for trace  $H_2$ ,  $H_2O$ ,  $O_2$ ,  $CH_4$ ,  $CO$ ,  $CO_2$ , Kr,  $NH_3$ , and Xe
- APIMS technology for ultra-trace impurity detection in bulk gases as low as 10 ppt
- Ultra-stable  $O_2$  measurement technology utilizing CRDS
- Low-level  $O_2$  measurement in  $CO_2$



Atmospheric Pressure Mass Spectrometers for Real-Time, ppt-Level, Multi-Impurity Analysis  
**VeraSpec™ APIMS**



CRDS for ppt-Level  $H_2O$ ,  $CH_4$ , and  $NH_3$   
**HALO KA Max™**



CRDS for Pre-Purifier Measurement for  $H_2O$ ,  $CH_4$ ,  $CO$ ,  $CO_2$ , and  $C_2H_2$   
**Spark™**



CRDS Trace Gas Analyzer for  $O_2$  and  $H_2$   
**HALO OK™ and HALO H2™**



ppt-Level CRDS for  $CO$  and  $CO_2$   
**HALO Max QCL™**

### Laser Spectroscopy & Electrochemical Analyzers



### Specialty Gas

#### Applications:

- UHP ammonia for HB LED production
- Quality monitoring for process specialty gases, including  $HCl$ ,  $Cl_2$ ,  $CO_2$ ,  $N_2O$ ,  $NF_3$ ,  $CxHy$ , Xe, and other compounds
- Corrosion-resistant versions available



Aluminum Oxide Dew Point Meters and Transmitters with Hyper-Thin-Film Technology for Portable/Fixed/Loop-Powered Applications  
**XDT™ | XPDM™ | HDT™ | LPDT2™**



ppt-Level CRDS Trace Moisture Analyzer  
**HALO KA  $H_2O$ ™**



CRDS for Corrosive, Rare, and Fluorinated Gases  
**HALO 3™**



CRDS for ppt-Level  $H_2O$  in pure  $NH_3$   
**ALOHA+  $H_2O$ ™**

# Spectrometers, Photometers, & Electrochemical Analyzers



## Process Tools

### Applications:

- Tool monitoring for trace H<sub>2</sub>O and HF
- Low pressure, low temperature EPI, ALD, MOCVD process monitoring
- Real-time moisture measurement in load lock, transfer, and process chambers
- Monitor cleaning solutions in wafer manufacturing process



Aluminum Oxide Dew Point Meters and Transmitters with Hyper-Thin-Film Technology for Portable/Fixed/Loop-Powered Applications  
**XDT™ | XPDM™ | HDT™ | LPDT2™**



Dual Beam Photometer for Continuous PAT Monitoring  
**ClearView® db**



Real-Time, Multi-Stream Process NIR Spectrometer  
**NIR-O™**



Mass Spectrometer for Real-Time, ppb-Level Analysis  
**MAX300-LG™**



CRDS Trace-Level, Low-Pressure Moisture Analyzer  
**HALO QRP™**



CRDS Reduced-Pressure, Trace-Level Analyzer  
**HALO RP™**

# Laser Spectroscopy Analyzers



## Airborne Molecular Contaminants

### Applications:

- Continuous AMC monitoring for ambient HCl, HF, and NH<sub>3</sub>
- Mobile GO-Cart for high resolution data collection at hot spots
- Stationary Multi-Max System with up to 32 sample ports available



CRDS Analyzers for Monitoring ppt-Level HCl, NH<sub>3</sub>, and HF in Clean Room Air  
**T-I Max HCl™ | T-I Max NH<sub>3</sub>™ | T-I Max HF™**



Mobile Solution for Monitoring AMC  
**GO-Cart™**



Next-Generation AMC Sampling System Monitor Gases in SEMI & HB LED Environments  
**Multi-Max AMC™**

## Water Quality Analyzers



## Water Analysis

### Applications:

- On-line water quality analysis for Total Organic Carbon (TOC), Chemical Oxygen Demand (COD), and Biochemical Oxygen Demand (BOD)
- Online determination of TOC (TRUE TOC), TC, TIC, NPOC, DOC, POC/VOC



TOC Water Analyzer for Harsh Wastewater Applications  
**QuickTOCultra™**



Water Analyzers for Pure and Process Water Applications  
**QuickTOCpurity™**



Water Analyzers for Ultra-Pure Water Applications  
**QuickTOCtrace™**



COD Water Analyzer for Laboratories  
**QuickCODlab™**

## Spectrometers, Water Quality, Electrochemical & Chilled Mirror Analyzers



## Lab, Safety & Compliance

### Applications:

- Ambient air monitoring, O<sub>2</sub>, dew point, and toxic chemicals
- Scrubber efficiency
- Precise dew point measurement for calibration labs
- Real-time, multi-point toxic gas ambient air monitoring



CRDS Trace Gas Analyzer for ppb-Level Detection of H<sub>2</sub>O, CH<sub>4</sub>, CO, CO<sub>2</sub> and C<sub>2</sub>H<sub>2</sub>  
**Spark™**



Chilled Mirror Dew Point Meter and Humidity Generators  
**MODEL 473™**



Trace to Percent Oxygen Monitors for Portable and Fixed Applications  
**Series 1300™ and OXY-SEN™**



Powerful Quadrupole Mass Spectrometer for Toxic Gas Ambient Air Monitoring  
**MAX300-TGM™**

# Turn-Key Integrated Solutions



# Systems Integration



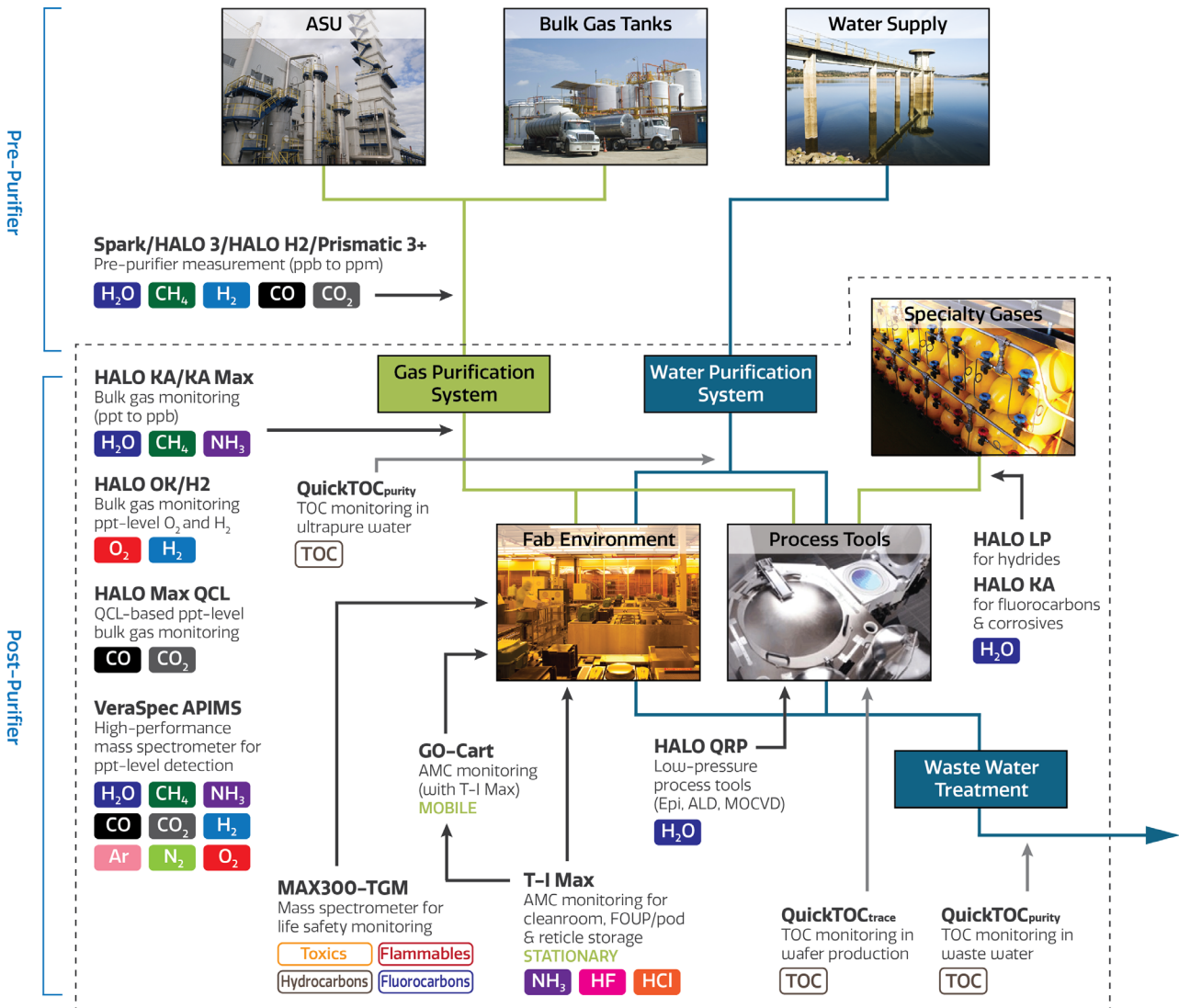
Multi-point AMC Sample System  
**Multi-Max AMC™**

Fixed Analytical Systems and  
Mobile Carts available

## Applications:

- Turn-Key integrated solutions for bulk and specialty gas, and AMC monitoring
- Fixed analytical cabinets, and mobile carts

# Total Solutions for the Semiconductor Industry



## GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

Process Insights manufactures and delivers premium sensors, monitors, detectors, analyzers, instrumentation, and software that are mission-critical to keep your operations, personnel, and the environment safe – every day across the globe.

Get the most reliable, precision analytical technologies available on the market today. We will work to match your needs and budget, and provide the optimal, and most stable process analysis solution for your application.

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REVOLUTIONIZING MEASUREMENT

**EVERYWHERE**