

## High Quality Analyzers for Diverse Gas, Water, and Liquid Industrial Applications

### Spectrometers & Electrochemical Analyzers



### Electronic Gas

#### Applications:

- Bulk gas continuous quality control monitoring (CQC); pre and post-purifier measurements
- Trace gas analyzers for impurities, including H<sub>2</sub>O, O<sub>2</sub>, H<sub>2</sub>, CH<sub>4</sub>, NH<sub>3</sub>, CO, CO<sub>2</sub>, N<sub>2</sub>, Ar, Xe, Kr, Ne, He, and hydrocarbons

**NEW**



Quantum Cascade Laser CRDS for CO and CO<sub>2</sub>, and ppt-Level Analysis for O<sub>2</sub>, H<sub>2</sub>O, CH<sub>4</sub>, and NH<sub>3</sub>  
**HALO QCL™, HALO OK, and HALO KA**



Aluminum Oxide Dew Point Meters for Portable/Fixed/Loop-Powered Applications  
**XDT / XPDM / LPDT / LPDT2™**



**NEW**



**NEW**



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

### Electrochemical, Spectroscopy & Chilled Mirror Analyzers



### Specialty Gas

#### Applications:

- Moisture impurity monitoring in welding gases and specialty gases, including corrosive gases (HCL, HBr, Cl<sub>2</sub>), rare gases (Xe, Kr, He, Ne), fluorinated gases, (SF<sub>6</sub>, NF<sub>3</sub>, CF<sub>4</sub>), hydrides (NH<sub>3</sub>, PH<sub>3</sub>, GeH<sub>4</sub>, AsH<sub>3</sub>), and pure CO<sub>2</sub>



Aluminum Oxide Dew Point Meters for Portable/Fixed/Loop-Powered Applications  
**XDT / XPDM / LPDT / LPDT2™**

**NEW**



Chilled Mirror Dew Point Meter for SF<sub>6</sub>  
**973 Model™**



CRDS for Corrosive, Rare, and Fluorinated Gases  
**HALO 3 H2O™**



CRDS with the Lowest LDL for H<sub>2</sub>O in NH<sub>3</sub>  
**ALOHA+ H2O™**

## Laser Spectrometers & Electrochemical Analyzers



### Air Separation

#### Applications:

- Process control, quality control, truck fill, safety, and compliance
- Continuous moisture analysis in instrument air and dryers, and portable spot checking
- Trace analyzers for H<sub>2</sub>O, O<sub>2</sub>, CH<sub>4</sub>, CO<sub>2</sub>, CO, C<sub>2</sub>H<sub>2</sub>, and other gases with detection capabilities from ppb to % level



Integrated, Custom Sample Systems Available



Aluminum Oxide Dew Point Meters for Portable/Fixed/Loop-Powered Applications  
XDT / XPDM / LPDT / LPDT2™



CRDS Analyzer for Trace Gas 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™

## Heating Value, Electrochemical & Spectroscopy Analyzers



### Hydrogen / Syngas

#### Applications:

- HyCO process control, hydrogen purity analysis, feed forward control, and flare gas analysis
- Increased accuracy and efficiency for all stages of the hydrogen economy: generation, storage and delivery
- Hydrogen purity to meet ISO14687/SAE J2719 standards
- Gas analyzers for H<sub>2</sub>O, CO, CO<sub>2</sub>, H<sub>2</sub>, N<sub>2</sub>, CH<sub>4</sub>, H<sub>2</sub>S, and hydrocarbon, BTU, Wobbe, CARI and Density



Benchtop Mass Spectrometers for Real-Time, ppb-Level, Multi-Impurity Analysis  
MAX300-LG™



Industrial Mass Spectrometers for Real-Time, Multi-Stream Process Control  
MAX300-RTG™ 2.0



Injection Style Heating Value Analyzer for Zero-Hydrocarbon Emissions for BTU and Flare Control  
9800™ Calorimeter



Portable and Fixed Aluminum Oxide Dew Point Meters  
XPDM™



Real-time Cavity Ring Down Spectroscopy (CRDS) Impurity Analyzers for H<sub>2</sub>O, CO, CH<sub>4</sub> and CO<sub>2</sub>  
CO-rect™ and Prismatic™



# Laboratory, Safety, & Compliance

## Applications:

- Air and fenceline monitoring
- O<sub>2</sub> deficiency safety monitoring, sulfur and nitrogen in fuels and biofuels, moisture calibration of sensors and standards
- Trace gas analyzers for H<sub>2</sub>O, O<sub>2</sub>, H<sub>2</sub>, CH<sub>4</sub>, NH<sub>3</sub>, CO, CO<sub>2</sub>, N<sub>2</sub>, Ar, He and hydrocarbons



Percent and Trace Oxygen Analyzers, and Oxygen Deficiency Safety Monitors  
**Series 2000™ and ZRO2000™**



Dual Beam Photometer for Real-Time Hydrogen Peroxide Vapor (HPV) Sterilant Gas Monitoring  
**ClearView db® Hydrogen Peroxide Vapor HPV™**



Total Sulfur-Total Nitrogen Gas Analyzers  
**XT-2000™**



Real-Time Air Mass Spectrometers for Environmental Health and Safety  
**MAX300-AIR™**



FTIR Environmental Vapor Monitoring Analyzer  
**ANALECT EVM™**



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



CRDS Trace Gas Analyzers  
**HALO™, Spark™, Co-rekt™, ALOHA+™, Prismatic™**



COD Water Analyzer for Laboratories  
**QuickTOClab™**



Chilled Mirror Dew Point Meters  
**373 Model™**



REVOLUTIONIZING MEASUREMENT

# EVERYWHERE