

High Quality Analyzers for Diverse Gas, Water and Liquid Applications

Spectrometers, Water Quality, Electrochemical & Chilled Mirror Analyzers



Academic & Advanced Research

Applications:

- University and government lab projects, including ion/particle physics, aerospace, vacuum analysis, isotopic analysis, residual gas analysis, outgassing studies, climatic chambers & glove boxes
- H₂, He, D₂, H₂O, O₂, N₂, CO₂, Ar, and more
- Glovebox moisture, temperature and dew point sensor validation



High-Performance
Mass Spectrometers
MAX-QMS™ and **VeraSpec HRQ™**



Oxygen Deficiency Monitors
Series 1300™



CRDS Trace Gas Analyzers
Prismatic 3™ and **HALO 3™**



Chilled Mirror
Dew Point Meters
473 Model™

Spectrometers, Electrochemical & Chilled Mirror Analyzers



Metrology

Applications:

- Humidity standards and generators, calibration transfer and reference standards, test method validation, and sensor calibration
- ppt - ppb - ppm levels of O₂, H₂O, HCl, CH₄, NH₃ and more
- Oxygen safety monitoring



CRDS Trace Gas Analyzers
HALO™ Series



Oxygen Analyzers
Series 2500™ and **Series 500™**



Chilled Mirror Dew Point Meters
and Humidity Generators
373 Model™

Mass Spectrometers & Laser Spectroscopy Analyzers



Materials & Catalysis Research

Applications:

- TPD, MBMS, pure gas analysis, packaging, TGA (and other thermal processes), laser ablation, plasma studies, outgassing studies, clusters research, reaction monitoring, loading/unloading, inhibitor breakthrough, and purifier development
- O₂, H₂O, H₂, C1-C10+ hydrocarbons, chlorides, and other compounds



Real-Time, ppb-Level
Lab Mass Spectrometer
MAX300-LG™



Flange-Mounted Mass
Spectrometers
MAX-QMS™



Mass Spectrometer Components:
Ion Sources & Ion Optics, Quadrupoles
& RF Devices, RF Power Supplies



CRDS for ppt-Level
Analysis for O₂
HALO OK™



CRDS for ppt-Level
Analysis for H₂O, CH₂,
and NH₃
HALO KA™

Water Quality Analyzers



Water & Wastewater

Applications:

- Water influent and effluent discharge control
- Process control, high purity, oil in water, cooling water, condensate return, water-steam cycles, and environmental compliance
- Total Organic Carbon (TOC) in water



TOC Water Analyzer for Harsh
Wastewater Applications
QuickTOCultra™



TOC Water Analyzer for
Clean Water Applications
QuickTOCuvII™



TOC Water Analyzers for Pure
and Process Water Applications
QuickTOCpurity™



COD Water Analyzer
for Laboratories
QuickTOClab™

Spectrometers & Chilled Mirror Analyzers

Fuel & Energy



Applications:

- Fuel cell H_2 purity per the ISO14687/SAE J2719 standards; quality control for Syngas, LNG, H_2 fuel cell technology, and nuclear energy
- ppt - ppb - ppm levels of CO , CO_2 , CH_4 , NH_3 , H_2O , O_2 , CH_2O , CH_2O_2 , He, Ar, N_2 in H_2 , and isotopic analysis
- Oxygen safety monitoring



Real-Time Laboratory Mass Spectrometer for ppb-to-100% Level for Multi-Species Analysis
MAX300-LG™



CRDS Trace Analyzers
HALO Max QCL™ and **Prismatic 3™**



Chilled Mirror Dew Point Meters and Humidity Generators
373 Model™

Optical Spectrometers & Probes for H_2O_2 & H_2O

Sterilization



Applications:

- Measure Sterilant gas concentration in real-time under ambient or vacuum conditions
- Monitor H_2O_2 and H_2O , Ethylene Oxide, NO_x for cycle development of sterilization chamber, filling isolators and Resistometers
- Optical RH and relative saturation measurements
- Sterilization process control, logging, or troubleshooting
- Independent reference for potential load production release



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



Vapor Probe for H_2O_2 Analyzer System, Suitable for Vacuum and Positive Pressure (up to 2 atm)
G-SST™ Vapor Probe



Environmental Research, Safety & Compliance

Applications:

- Ambient air analysis, pyrolysis, natural materials, isotopic analysis, greenhouse gas monitoring
- Full composition and trace gas analyzers for atmospheric chemistry and environmental research
- River water, contamination, and wastewater monitoring
- Climatic chamber and glovebox moisture, temperature and dew point sensor validation
- Trace gas analyzers for compounds, including H₂O, O₂, H₂, CH₄, NH₃, CO, CO₂, N₂, Ar, He, VOC, HAPs, hydrocarbons, etc.



TOC Water Analyzer for Clean Water Applications
QuickTOCuvII™



Fast, Continuous, Online Toximeter for Drinking Water and Surface Water
ToxAlarm™



Portable and Fixed Trace to Percent Oxygen Monitors
Series 3520™ and **OXY-SEN™**



CRDS Analyzer for Trace-Level Hydrogen
HALO H2™



CRDS Air Analyzers
T-I Max AIR™



Real-Time Mass Spectrometer for Trace Contaminants in Air
MAX300-AIR™



Molecular Beam Mass Spectrometer for Pyrolysis and Environmental Research
VeraSpec™ MBx

For a complete range of products, applications, systems, and service options, please contact us at: info@process-insights.com

For a complete list of sales & manufacturing sites, please visit: <https://www.process-insights.com/about-us/locations/>



REVOLUTIONIZING MEASUREMENT
EVERYWHERE