

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 other compounds
- 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 other compounds
- 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™



CRDS for ppt-Level
Analysis for O₂
HALO OK™



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



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

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
QuickTOCuvll™



TOC Water Analyzers
for Pure and Process
Water Applications
QuickTOCpurity™



COD Water Analyzer
for Laboratories
QuickCODlab™

Spectrometers & Chilled Mirror Analyzers



Fuel & Energy

Applications:

- Fuel cell H₂ purity per the ISO14687/SAE J2719 standards; quality control for Syngas, LNG, H₂ fuel cell technology, and nuclear energy
- ppt - ppb - ppm levels of CO, CO₂, CH₄, NH₃, H₂O, O₂, CH₂O, CH₂O₂, He, Ar, N₂ in H₂, and isotopic analysis
- Oxygen safety monitoring



Real-Time Lab 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 H₂O₂ & H₂O



Sterilization

Applications:

- Measure Sterilant gas concentration in real-time under ambient or vacuum conditions
- Monitor H₂O₂ and H₂O, Ethylene Oxide, and NO_x for cycle development of sterilization chambers, 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 H₂O₂ Analyzer System, Suitable for Vacuum and Positive Pressure (up to 2 atm)
G-SST™ Vapor Probe



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
QuickTOCuvll™



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



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



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



Trace-Level Hydrogen Analyzer
HALO H2™



CRDS Air Analyzers
T-I Max AIR™



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

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Process Insights delivers premium analytical sensors, analyzers, instrumentation, software and solutions that are mission-critical to keep your operations, personnel, and the environment safe. Our commitment to customer satisfaction is evident through our diverse range of products, programs, and services, designed to accommodate various budgets and application needs.

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