

High Quality Analyzers for Diverse Gas, Water and Liquid Applications

Spectrometers, 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
- H_2 , He, D_2 , H_2O , O_2 , N_2 , CO_2 , 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
MODEL 473™

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 O_2 , H_2O , HCl, CH_4 , NH_3 and other compounds
- Oxygen safety monitoring



CRDS Trace Gas Analyzers
Spark™ and **HALO™** Series



Trace Oxygen Analyzers
Series 3510™ and **Portable Series 3520™**



Chilled Mirror Dew Point Meters
and Humidity Generators
MODEL 373™

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
- O_2 , H_2O , H_2 , 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 O_2
HALO OK™



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



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
QuickTOCuvII™



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 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 Lab Mass Spectrometer
for ppb-to 100% Level for
Multi-Species Analysis
MAX300-LG™



Aluminum Oxide Dew Point Meters
with HTF Technology for Portable &
Fixed/Loop Powered Applications
XPDM™



CRDS Trace Analyzers
HALO Max QCL™ and
Prismatic 3™



Chilled Mirror
Dew Point Meters and
Humidity Generators
MODEL 373™

Optical Photometers & 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, 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 Sterilant Gas Monitoring
ClearView® db Hydrogen Peroxide Vapor Analyzer

NEW



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 H_2O , O_2 , H_2 , CH_4 , NH_3 , CO , CO_2 , N_2 , Ar , He , VOC , $HAPs$, hydrocarbons, etc.



TOC Water Analyzer for
Clean Water Applications
QuickTOCuvil™



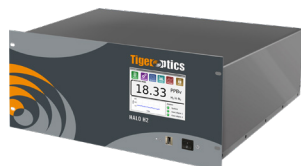
Fast, Continuous, Online Toximeter
for Drinking Water and Surface Water
ToxAlarm™



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



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



Trace-Level
Hydrogen Analyzer
HALO H2™



CRDS Air Analyzers
T-I Max AIR GHG™



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:
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For a complete list of sales & manufacturing sites, please visit:
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REVOLUTIONIZING MEASUREMENT

EVERYWHERE