

Real-time Process and Laboratory Analyzers for Air and Water Applications

Heating Value, Spectroscopy & Electrochemical Analyzers



Fuel Gas, Natural Gas & Biofuels

Applications:

- Real-time gas analyzers for environmental compliance and combustion control
- Rapid response for optimized combustion efficiency and accurate H₂ blending to reduced carbon emissions
- Multiple solutions for compliance with regulations such as 40 CFR Part 60, and HRVOC rules
- H₂S, Total Sulfur, Net Heating Value (NHV), O₂ and CO_e, Wobbe, Specific Gravity, CARI, and full speciated composition



Fast, Multi-Cycle Total Sulfur
Fuel Gas Analyzer
FGA-1000™



Direct Heating Value
Analyzer for BTU, CARI,
Wobbe and Density
9610™ Calorimeter



In Situ O₂ and CO_e for
Combustion Monitoring for
Burner Optimization
O2CX™ Monitor



Industrial Mass Spectrometers
for Real-Time, Multi-Stream
Fuel Compliance and Control
MAX300-RTG™ 2.0

Spectrometers & Electrochemical Analyzers



Continuous Emissions Monitoring (CEM)

Applications:

- Multi-gas, oxygen, and CO_e analyzers for continuous emissions monitoring (CEM) in industrial plants, power generation, refineries, engines, turbines, pulp and paper, cement, etc.
- Stack gas analysis for CEM (LDLs in ppb or ppt of NH₃, HCl, HF, H₂S, CO_e, NO, CH₄, and more)
- Trace HCl measurements to comply with US EPA rules
- Continuous monitoring of ammonia slip for lower cost of abating NO_x
- Automated, multi-point analysis of waste gas and scrubber effluent for efficiency reporting



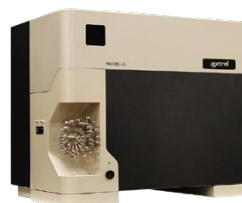
Handheld Multigas
Emissions Analyzer
707™



In Situ O₂ and CO_e for
Combustion Monitoring for
Burner Optimization
O2CX™ Monitor



In-Situ, Stack Gas
Oxygen Analyzer
Zircomat™



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



CRDS CEMs analyzer for
HCl, HF, NH₃ and more
T-I MAX™



Flare Gas Analysis

Applications:

- Real-time gas analyzers for flare compliance and control
- H₂S, Total Sulfur, Net Heating Value/BTU (NHV), H₂, and full speciated composition
- Complete analysis for compliance with regulations such as EMACT, MONMACT, RSR, Subpart Ja, Ontario Reg. 530/18, Korean Facility Management Standards to Reduce Fugitive Emissions, and HRVOC rules



Total Sulfur Gas Analyzers
FGA-1000™

NEW



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



Real-Time Mass Spectrometers for Compliance and Flare Control
MAX100-BTU™ and MAX300-RTG™ 2.0

NEW



Spectrometers & Electrochemical Analyzers



Fenceline & Ambient Air Analysis

Applications:

- Monitor ambient air for OSHA compliance for workplace safety
- Real-time analysis of BTEX, acrylonitrile, VCM, EDC, HCl, VOCs, HAPs, solvents, H₂O, O₂, and LELs in air
- Low-level leak detection of hazardous compounds and EPA method 320 HAPS
- Emissions from industrial or agricultural operations and urban environments
- Refinery benzene fenceline monitoring for Refinery Sector Rule (RSR) compliance



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



CRDS for Real-Time, Trace Methane, CO₂, and Formaldehyde
T-I MAX™ AIR



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



FTIR Environmental Vapor Monitoring Analyzer
ANAELECT EVM™



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

NIR Photometers & Probes for H₂O₂ and H₂O

Sterilization & Virus Deactivation

Applications:

- Measure sterilant gas concentration in real-time under ambient or vacuum conditions
- H₂O₂, H₂O, Ethylene Oxide, NO_x under ambient or vacuum conditions for cycle development of sterilization chamber, filling isolators and Resistometers
- Optical RH and relative saturations measurements
- 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

Optical Spectrometers & Water Quality Analyzers

Pure Water, Wastewater & Runoff

Applications:

- On-line water quality analysis for Total Organic Carbon (TOC), Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD)
- Water influent and effluent discharge control for environmental compliance
- Municipal water quality, drinking and surface water toxicity
- Airport deicing fluid capture and remediation
- Industrial stormwater and agricultural runoff



TOC Water Analyzer for Harsh Wastewater Applications
QuickTOCultra™



TOC Water Analyzer for Clean Water Applications
QuickTOCuvII™



TOC Water Analyzer for Municipal & Cooling Water Applications
QuickTOCeco™



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



UV-VIS Process Analyzer for Triazines and Precursors in Agricultural Runoff
M508plus™



COD Water Analyzer for Laboratories
QuickTOClab™

Optical & Mass Spectrometry Analyzers



Sulfur Analysis



Fast, Multi-Cycle Total
Sulfur Gas Analyzer
SGA-1000™



Real-Time Total Sulfur in
Liquids Analyzer
SLA-1000™

Applications:

- Sulfur analysis in butane, diesel, liquid fuels, Liquefied Natural Gas (LNG), hydro-treaters, blenders and scrubbers
- Renewable Natural Gas (RNG) and biofuels manufacturing
- H₂S, Total Sulfur and Total Nitrogen, and Trace Sulfur
- Meets ASTM D5453, for compliance with regulations like US EPA Tier III, European Euro 6 and the Indian Bharat VI



Real-Time Laboratory Total Sulfur and
Total Nitrogen in Liquid and Gases
XT-2000™



Industrial Mass Spectrometers for
Real-Time, Multi-Stream Fuel
Compliance and Control
MAX300-RTG™ 2.0

Heating Value, Spectroscopy & Electrochemical Analyzers



Greenhouse Gas/Carbon Emissions

Applications:

- Monitor emissions of greenhouse gases from various sources such as landfills, gas and oil exploration sites, refineries, chemical plants, and agricultural facilities
- Combustion analyzers for steel, power, petroleum, petrochemicals, ceramics, paper & pulp, food, textiles, garbage incinerators, and boilers
- Optimized combustion control to reduce CO₂, SO_x, and NO_x emissions, and prevent global warming and air pollution
- Real-time analyzers for CH₄ and CO, CO₂, O₂, NO_x, SO₂, and H₂S in air



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



Handheld MultiGas
Emissions Analyzer
707™



In-Situ, Stack Gas
Oxygen Analyzer
Zirconat™



CRDS Analyzer for the Detection &
Continuous Monitoring of Methane and
Greenhouse Gases (GHG)
T-I MAX™ AIR CH₄



In Situ O₂ and CO_e for
Combustion Monitoring for
Burner Optimization
O2CX™ Monitor



Laboratory, Safety, & Environmental Research

Applications:

- Full composition and trace gas analyzers for atmospheric chemistry and environmental research
- River water, environmental contamination, and wastewater monitoring
- Climatic chamber and glovebox moisture, temperature, and dew point sensor validation
- PPB to 100% H₂O and O₂ (aerobic or anaerobic activity), relative humidity and dew point, temperature, and compositional gas analysis
- Trace gas analyzers for H₂O, O₂, H₂, CH₄, NH₃, CO, CO₂, N₂, Ar, He, VOCs, HAPs, hydrocarbons, etc.



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



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



Chilled Mirror Dew Point
Hygrometer with Measuring
Head for Temperature and
RH Measurements
973 Model™



Benchtop Mass Spectrometer for
Real-Time ppb-Level to 100%
Catalysis, Reaction Monitoring, and
Environmental Research
MAX300-CAT™



TOC Water Analyzer for Clean Water
Applications **QuickTOCuvII™**



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



CRDS Trace Gas Analyzer for
PPB-Level Detection of H₂O, CH₄,
CO, CO₂ and C₂H₂
Spark™

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



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systems, and service options, please contact us at:
info@process-insights.com

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REVOLUTIONIZING MEASUREMENT
EVERYWHERE