

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
9610CXc™ Calorimeter

NEW



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

NEW



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 CX™

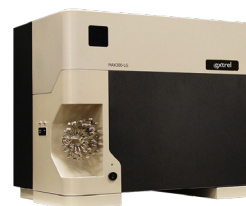
NEW



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™ CEM

Optical & Mass Spectrometers & Heating Value Analyzers



Flare Gas Analysis

Applications:

- Real-time gas analyzers for flare compliance and control
- H₂S, Total Sulfur, Net Heating Value (NHV)/BTU, 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™



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



Real-Time Mass Spectrometer for Compliance and Flare Control
MAX300-RTG™ 2.0

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
- Ambient emission from industrial, agricultural, 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, Methane, CO₂, and Formaldehyde
T-I Max™ AIR



CRDS Air Analyzers for Green House Gas
T-I MAX-AIR GHG™



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



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



FTIR Environmental Vapor Monitoring Analyzer
ANALECT EVM™

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 Sterilant Gas Monitoring
ClearView® db Hydrogen Peroxide Vapor Analyzer



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
508 UV-VIS™



COD Water Analyzer for Laboratories
QuickCODlab™

Spectrometers, Water Quality, Electrochemical & Chilled Mirror Analyzers



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
XPDM™ | **HDT™** | **LPDT2™**



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



TOC Water Analyzer for Clean Water Applications
QuickTOCuVll™



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



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



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

Optical & Mass Spectrometry Analyzers



Sulfur Analysis

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, Euro 6, and the Bharat VI



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



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



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, CO, CO₂, O₂, NO_x, SO₂, and H₂S in air



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



Handheld Multigas Emissions Analyzer
707 CX™



In-Situ, Stack Gas Oxygen Analyzer
Zircomat™



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



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

GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

Process Insights manufactures and delivers premium sensors, monitors, detectors, analyzers, instrumentation, and software that are mission-critical to keep your operations, personnel, and the environment safe – every day across the globe.

Get the most reliable, precision analytical technologies available on the market today. We will work to match your needs and budget, and provide the optimal, and most stable process analysis solution for your application.

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REVOLUTIONIZING MEASUREMENT

EVERYWHERE