

High Quality Analyzers for Diverse Gas, Water, and Liquid Hydrocarbon Applications

Heating Value, Spectroscopy & Electrochemical Analyzers



Fuel Gas

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 COe, 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, Multigas O₂ and Combustibles Monitor for Fuel Gas Optimization
O2CX™ Sensor



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

Optical / Mass Spectrometers & Heating Value Analyzers



Flare Gas

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™



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



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





Sulfur Analysis

Applications:

- Sulfur analysis in butane, diesel, liquid fuels, LNG, hydro-treaters, blenders and scrubbers
- H₂S, Total Sulfur and Total Nitrogen and Trace Sulfur
- Net Heating Value/BTU (NHV), H₂ and full speciated composition
- Meets ASTM D5453, for compliance with regulations like US EPA Tier III, European Euro 6 or the Indian Bharat VI



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



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



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



UV-VIS Process Analyzer for H₂S to SO₂ Ratio
M508plus™

Optical Spectroscopy Analyzers



Crude Oil Processing

Applications:

- Real time process analyzers for naphtha conversion, catalytic conversion, upgrading units, isomerization, alkylation, and gasoline and diesel blending
- Monitor catalyst efficiency
- PIONA content of reformate, octane numbers, volatility (RVP, vapor-to-liquid ratio), aromatics content, olefins, oxygen, benzene, distillation parameters, Fuel ID, and Fuel Color + Turbidity



Dual Beam Photometer for Continuous PAT Monitoring Available in Several Enclosure Options
ClearView db®



Benchtop NIR Spectrometer for QC lab and Pilot Plant Operations
Lab NIR-O™



Real-Time, Multi-Stream Process NIR Spectrometer
NIR-O™



FTIR/FT-NIR Process Analyzer for Refining Applications
ANALECT® RefinIR™



Process FTIR Analyzer for Refinery Monitoring
ANALECT® Hydrocarbon SmartSystem™



Instrument Air & Dryers

Applications:

- Continuous moisture analysis in instrument air and dryers and portable spot checking
- Trace moisture in clean dry air, ppb to %



NEW



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

CRDS Analyzer for UHP Moisture in Air
Spark™

Heating Value, Electrochemical & Spectroscopy Analyzers



Steam Methane Reformer

Applications:

- Hydrogen and syngas process control, and hydrogen purity analysis
- Increased accuracy and efficiency for all stages of the hydrogen economy- generation, storage, and delivery
- Gas analyzers for H₂O, CO, CO₂, H₂, N₂, CH₄, H₂S, hydrocarbons, BTU, Wobbe, CARL, and Density



NEW



NEW



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

Industrial Mass Spectrometers for Real-Time, Multi-Stream Process Control
MAX300-RTG™ 2.0

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

Portable and Fixed Aluminum Oxide Dew Point Meters
XPDM™



NEW



Real-time Cavity Ring Down Spectroscopy (CRDS) Impurity Analyzers for H₂O, CO, CH₄ and CO₂
CO-rekt™ and Prismatic 3™



Laboratory, Safety & Compliance

Applications:

- Air and fenceline monitoring compliant with regulations such as OSHA requirements, USEPA Method 320, and the RSR
- O₂ deficiency safety monitoring, sulfur and nitrogen in fuels and biofuels, moisture calibration of sensors and standards
- Trace gas analyzers for H₂O, O₂, H₂, CH₄, NH₃, CO, CO₂, N₂, Ar, He, and hydrocarbons



Percent and Trace Oxygen Analyzers, and Oxygen Deficiency Safety Monitors
Series 3520™ and OXY-SEN™



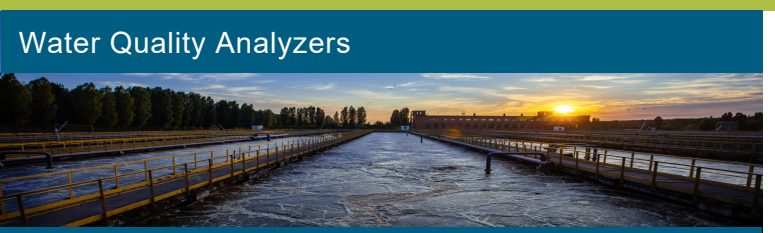
Chilled Mirror Dew Point Meters
373 Model™



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



Total Sulfur-Total Nitrogen Gas Analyzers
XT-2000™



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 Analyzer for Municipal & Cooling Water Applications
QuickTOCeco™



COD Water Analyzer for Laboratories
QuickTOClab™

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REVOLUTIONIZING MEASUREMENT

EVERYWHERE