

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

Heating Value, Spectroscopy & Electrochemical Analyzers



Renewable Natural Gas (RNG)

Applications:

- Real-time analyzers for RNG processing, custody transfer, and environmental compliance
- Rapid response for optimized combustion efficiency and accurate H₂ blending to reduce 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, CARL, and full speciated composition



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



Aluminum Oxide Dew Point Meters and Transmitters
with Hyper-Thin-Film Technology for Portable/Fixed/
Loop-Powered Applications
XPDM™ | HDT™ | LPDT2™



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



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



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

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 Analyzer for
Municipal and Cooling
Water Applications
QuickTOCeco™



COD Water Analyzer
for Laboratories
QuickCODlab™

Electrochemical Sensors & Laser Spectroscopy Analyzers



Instrument Air & Dryers

Applications:

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



NEW



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



CRDS Analyzer for
Moisture in UHP Air
Spark™

Heating Value, Electrochemical & Spectroscopy Analyzers



Hydrogen & Fuel Cells

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
- Hydrogen purity to meet ISO14687/SAE J2719 standards
- Gas analyzers for H₂O, CO, CO₂, H₂, N₂, CH₄, H₂S, hydrocarbons, BTU, Wobbe, CARL, and Density

NEW



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

NEW



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



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



Portable and Fixed
Aluminum Oxide
Dew Point Meters
XPDM™



NEW



Real-time Cavity Ring Down Spectroscopy (CRDS) Impurity Analyzers for H₂O, CO, CH₄, CO₂ and NH₃
CO-rect™ / Prismatic 3™ / HALO Max QCL™ CO

Mass Spectrometers & Laser Spectroscopy Analyzers



Fuel Ethanol & Fermenter Control

Applications:

- Fermenter bioreactor off-gas composition analysis
- Fast and accurate analysis for control parameters such as:
Oxygen Uptake Rate (OUR)
Carbon dioxide Evolution Rate (CER)
Respiratory Quotient (RQ) and fermentation end point
- Continuous monitoring to improve yield and quality, and reduce waste
- Single species or multi-component analysis (e.g. CO₂, O₂, N₂, Ar, H₂O, CO, H₂, He, hydrocarbons, alcohols, aldehydes, sulfurs, etc.)
- Real-time determination of ethanol in gasoline



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



NIR-VIS Process Analyzer
ClearView® db



Real-Time, Multi-Stream Mass
Spectrometer Gas Analyzer for
Accurate OUR, CER and RQ
MGA 1200CS™



Benchtop Mass Spectrometer
for Real-Time, Multi-Stream,
Bioreactor Control
MAX300-LG™



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

Heating Value, Spectroscopy & Electrochemical Analyzers



Off-Gas Recapture & Enrichment

Applications:

- Real-time gas analyzers for industrial off-gas, enrichment, combustion control, and environmental compliance
- Rapid response for optimized combustion efficiency and accurate H₂ blending to reduce 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



Handheld Multigas
Emissions Analyzer
707™



In-Situ, Stack Gas
Oxygen Analyzer
Zirconat™



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



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

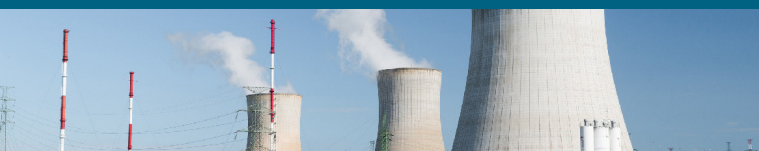


In Situ O₂ and CO_e for
Combustion Monitoring
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O2CX™ Monitor



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

Spectrometers & Electrochemical Analyzers



Nuclear Power

Applications:

- Oxygen analysis during waste gas tritium recovery
- ppt – ppb – ppm levels of CO, CO₂, CH₄, NH₃, H₂O, O₂, CH₂O, CH₂O₂, He, Ar, and N₂ in H₂
- Helium, deuterium, H₂, and isotopic analysis for nuclear research



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



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



High Resolution Mass Spectrometer for Isotopic Analysis
VeraSpec HRQ™

Electrochemical Analyzers & Mass Spectrometers



Gasification

Applications:

- Real-time control of biomass gasification and pyrolysis processes
- Gas analyzers for H₂O, O₂, CO, CO₂, H₂, N₂, CH₄, H₂S, hydrocarbons, BTU, Wobbe, CARI, and Density
- Molecular beam mass spectrometers for natural product analysis, bio oils, and pyrolysis research



NEW



Aluminum Oxide Dew Point Meters and Transmitters with Hyper-Thin-Film Technology for Portable/Fixed/ Loop-Powered Applications
XPDM™ | HDT™ | LPDT2™



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



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



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

Spectrometers, Photometers, Water Quality,
Electrochemical & Chilled Mirror Analyzers



Laboratory, Safety & Compliance

Applications:

- Air and fenceline monitoring
- 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
- Sulfur testing in renewable fuels



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



Dual Beam Photometer for Real-Time Hydrogen
Peroxide Vapor Sterilant Gas Monitoring
ClearView® db Hydrogen Peroxide Vapor



Total Sulfur-Total
Nitrogen Gas Analyzers
XT-2000™



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



COD Water Analyzer
for Laboratories
QuickCODlab™



FTIR Environmental Vapor
Monitoring Analyzer
ANALECT EVM™



TOC Water Analyzers for
Pure and Process Water
Applications for Laboratories
QuickTOCpurity™



CRDS Trace Gas Analyzers
HALO™, **Spark™**, **Co-rekt™**,
ALOHA+ H₂O™, **Prismatic™**



Chilled Mirror Dew
Point Meters
MODEL 373™

For a complete range of products, applications,
systems, and service options, please contact us
at: info@process-insights.com

For a complete list of sales & manufacturing
sites, please visit:
[https://www.process-insights.com/about-us/
locations/](https://www.process-insights.com/about-us/locations/)

REVOLUTIONIZING MEASUREMENT

EVERYWHERE