

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

Optical & Mass Spectrometry Analyzers



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



NEW



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



CRDS Analyzer for UHP
Moisture in Air
Spark™

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



Steam Methane Reformer



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

NEW



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

NEW



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™



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

- 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



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 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 & Cooling Water Applications
QuickTOCeco™



COD Water Analyzer for Laboratories
QuickTOClab™

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.

CENTERS OF EXCELLENCE | PROVIDING PROVEN SOLUTIONS

Process Insights is committed to solving our customers' most complex analytical, process, and measurement challenges everyday.

Process Insights The Americas

4140 World Houston Parkway
Suite 180
Houston, TX 77032
USA
+1 713 947 9591

Process Insights EMEA

ATRICOM
Lyoner Strasse 15
60528 Frankfurt
Germany
+49 69 20436910

Process Insights APAC

Wujiang Economic and Technology
Development Zone
No. 258 Yi He Road
215200 Suzhou
Jiangsu Province, China
+86 400 086 0106

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/>



REVOLUTIONIZING MEASUREMENT

EVERYWHERE