

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 H_2 blending to reduced carbon emissions
- Multiple solutions for compliance with regulations such as 40 CFR Part 60, and HRVOC rules
- H_2S , Total Sulfur, Net Heating Value (NHV), O_2 and CO_e , Wobbe, Specific Gravity, CARI, and full speciated composition



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



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



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
- H_2S , Total Sulfur, Net Heating Value (NHV)/BTU, H_2 , and full speciated composition
- Complete analysis for compliance with regulations such as EMAX, 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 CXi™ Injection Style
Calorimeter**



Real-Time Mass Spectrometers for
Compliance and Flare Control
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, Trace Sulfur, Net Heating Value (NHV)/BTU, 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
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
RefinIR™



Process FTIR Analyzer for
Refinery Monitoring
**Hydrocarbon
SmartSystem™**

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



COSAXENTAUR

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



TigerOptics

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 H_2O , CO , CO_2 , H_2 , N_2 , CH_4 , H_2S , hydrocarbons, BTU, Wobbe, CARI, and Density



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



extrel

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



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

COSAXENTAUR



TigerOptics



Real-time Cavity Ring Down Spectroscopy (CRDS) Impurity
Analyzers for H_2O , CO , CH_4 and CO_2 **CO-rekt™** and **Prismatic
3™**



Portable and Fixed
Aluminum Oxide Dew Point
Meters **XPDM™**

Spectrometers, Electrochemical & Chilled Mirror Analyzers

Laboratory, Safety & Compliance



AO ALPHA OMEGA
INSTRUMENTS

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



MBW calibration

Chilled Mirror
Dew Point Meters
Model 373™



extrel

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



ATOM
INSTRUMENT

Total Sulfur-Total Nitrogen
Gas Analyzers
XT-2000™

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

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
QuickTOCuv™

LAR THE
TOC
LEADER



TOC Water Analyzer for Municipal
and Cooling Water Applications
QuickTOCeco™



COD Water Analyzer
for Laboratories
QuickCODlab™

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Process Insights delivers premium analytical sensors, analyzers, instrumentation, software and solutions that are mission-critical to keep your operations, personnel, and the environment safe. Our commitment to customer satisfaction is evident through our diverse range of products, programs, and services, designed to accommodate various budgets and application needs.

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