

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

### Mass Spectrometers & Optical Spectroscopy Analyzers



### Process Control

#### Applications:

- Rapid gas and liquid analyzers to enable real-time control of process reactors
- Fast, accurate process optimization for increased manufacturing yields, safer operation and reduced wear on equipment
- Inline and online process analyzers for methanol in water, caustic and carbonate concentrations, ethylene dichloride (EDC) vent gas, etc.



FTIR/FT-NIR process Analyzer for Liquids, Solids and Gases  
**ANALECT PCM 1000™**



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



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



Dual Beam Photometer for Continuous PAT Monitoring  
**ClearView db®**

### Optical / Mass Spectrometers & Heating Value Analyzers



### Flare Gas

#### Applications:

- Real-time gas analyzers for flare compliance and control
- H<sub>2</sub>S, Total Sulfur, Net Heating Value/BTU (NHV), H<sub>2</sub>, 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  
**9800™ Injection Style Calorimeter**



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



**Fuel Gas**

**Applications:**

- Real-time gas analyzers for environmental compliance and combustion control
- Rapid response for optimized combustion efficiency and accurate H<sub>2</sub> blending to reduced carbon emissions
- Multiple solutions for compliance with regulations such as 40 CFR Part 60, and HRVOC rules
- H<sub>2</sub>S, Total Sulfur, Net Heating Value (NHV), O<sub>2</sub> and CO<sub>e</sub>, 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**



**NEW**  
In Situ O<sub>2</sub> and CO<sub>e</sub> 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**

**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™**



**NEW**  
TOC Water Analyzer for Municipal  
& Cooling Water Applications  
**QuickTOCeco™**



COD Water Analyzer  
for Laboratories  
**QuickTOClab™**



# Instrument Air & Dryers

### Applications:

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



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



CRDS Analyzer for UHP Moisture in Air  
**Spark™**



# 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<sub>2</sub>O, CO, CO<sub>2</sub>, H<sub>2</sub>, N<sub>2</sub>, CH<sub>4</sub>, H<sub>2</sub>S, hydrocarbons, BTU, Wobbe, CARI and Density



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™**



Real-time Cavity Ring Down Spectroscopy (CRDS) Impurity Analyzers for H<sub>2</sub>O, CO, CH<sub>4</sub> and CO<sub>2</sub>  
**CO-rekt™ and Prismatic 3™**





## Sulfur Analysis

### Applications:

- Sulfur analysis in butane, diesel, liquid fuels, LNG, hydro-treaters, blenders and scrubbers
- Renewable Natural Gas (RNG) and biofuels manufacturing
- H<sub>2</sub>S, Total Sulfur and Total Nitrogen and Trace Sulfur
- Net Heating Value/BTU (NHV), H<sub>2</sub> 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™**



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**



## Laboratory, Safety, & Compliance

### Applications:

- Air and fenceline monitoring compliant with regulations such as OSHA requirements, USEPA Method 320, and the RSR
- O<sub>2</sub> deficiency safety monitoring, sulfur and nitrogen in fuels and biofuels, moisture calibration of sensors and standards
- Trace gas analyzers for H<sub>2</sub>O, O<sub>2</sub>, H<sub>2</sub>, CH<sub>4</sub>, NH<sub>3</sub>, CO, CO<sub>2</sub>, N<sub>2</sub>, Ar, He and hydrocarbons



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



Real-Time Hydrogen Peroxide Vapor  
(HPV) Sterilant Gas  
Monitoring System  
**ClearView db® Hydrogen Peroxide  
Vapor HPV™**



Total Sulfur-Total  
Nitrogen Gas  
Analyzers  
**XT-2000™**



Chilled Mirror  
Dew Point Meters  
**373 Model™**



Real-Time Air Analyzers  
for Environmental  
Health and Safety  
**MAX300-AIR™**



FTIR Environmental  
Vapor Monitoring  
Analyzer  
**ANALECT EVM™**



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



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.

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REVOLUTIONIZING MEASUREMENT

**EVERYWHERE**