Process Analyzers
Product Guide

Make process decisions with confidence using accurate and reliable analyzers
Panametrics, a Baker Hughes business, offers a wide array of process analyzers that enable you to make process decisions with confidence. Reliable and stable, our products and services are backed by decades of industry experience and by knowledgeable experts to help you understand your application.

We know that when it comes to process control, accuracy and reliability are two of the greatest factors when choosing a process analyzer. Because we serve such a wide variety of industries, applications, technologies, and use cases, we’ve developed one of the strongest portfolios of process analyzers on the market.

Ensuring the integrity of your process liquids and gases
Industry applications

Panametrics’ process measurement solutions cover a wide range of industries and applications.

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Panametrics’ process measurement solutions cover a wide range of industries and applications.
Moisture, Oxygen & Gas Analysis

Moisture is considered a contaminant in many processes, causing corrosion in metal infrastructure, reduced process yield and impacting final product quality. As such, industrial processes may contain a moisture removal step using dryers like molecular sieves or glycol contactors to ensure moisture in process gases and liquids stay below permissible levels. Moisture measurement and control is therefore a critical component for a whole range of industries like natural gas, petrochemical processing, power generation, semiconductor manufacture and industrial gas, among others.

Oxygen and gases such as hydrogen need to be measured and controlled in many processes and applications, from explosion prevention to ensuring process chemical reactions take place in a controlled manner. Applications for oxygen measurement range from tank inerting in the chemical industry to purity measurements in food packaging. Hydrogen measurement applications include power plant generators and electrolyzers for hydrogen production.

The technologies used must be robust, reliable and proven in the field. Panametrics has a long tradition and experience in moisture, oxygen and gas analysis using various core technologies such as: aluminum oxide, laser, thermoparamagnetic, electrochemical, and thermal conductivity.
Moisture Analysis

Aluminum Oxide Technology

Panametrics aluminum oxide moisture sensors have set the standard in process moisture measurement for more than 60 years. The sensor consists of a porous oxide layer with a very thin metal coating. Water vapor rapidly equilibrates on the pore walls of the oxide layer. The number of water molecules adsorbed on the oxide structure determines the conductivity of the pore walls, which in turn is functionally related to the water vapor pressure expressed as water dew point, PPMv, PPMw, etc.

Benefits:
- The sensor reports pressure dew point at pressures up to 5000 psig (345 bar)
- Sensors work in liquid- and vapor-phase applications
- The sensor is calibrated in nitrogen for all applications
- Large dynamic measurement range: -110 °C to +60 °C dew/frost point
- Sensors are easy to replace in the field

moisture.IQ

Multi-channel moisture analyzer for measurement in gases and liquids

The flagship analyzer of the IQ series is designed for installation in a control room or field setting, providing complete functionality where single or multiple measurements are required, for both moisture and oxygen analysis.

APPLICATIONS

Power Plant
H₂ (cooling generator)
Instrument Air lines
SF₆ gas
Transformer oil

Refinery / Petrochemical
Hydrocarbon liquids
Hydrogen recycle gas
Ethylene
Polyethylene plant feeds

Natural Gas
Natural gas pipelines
LNG, LPG, NGLs
Biogas upgrading

Steel Plant
Annealing Lines
Galvanisation Lines
Utilities

Industrial Gases
Air Separation units
Cylinder filling

Food & Beverages
CO₂ gas

Hydrogen
Steam Methane Reformers
Electrolyzers
Pipeline & Storage

FEATURES
- 1 to 6 channels of moisture and oxygen measurement
- Touch screen display
- Analog and digital outputs
- Compatible with MISP2 and M series aluminum oxide moisture probes
- 19” rack, panel, weatherproof wall-mount and explosionproof versions available

Panametrics
### dew.IQ

**Single-channel moisture analyzer for measurement in gases**

An economical, single-channel, aluminum oxide hygrometer in the IQ Series line of analyzers. It is intended for industrial applications requiring accurate, real-time moisture measurement.

**APPLICATIONS**

- **Power Plant**
  - H₂ (cooling generator)
  - Instrument Air lines
  - SF₆ gas
- **Refinery / Petrochemical**
  - Utility gas / Instrument air
- **Steel Plant**
  - Annealing Lines
  - Galvanisation Lines
  - Utilities
- **Industrial Gases**
  - Air Separation Units
  - Cylinder Filling
- **Pharmaceutical**
  - Utility air
  - Instrument calibration
- **Food & beverages**
  - CO₂ gas
- **Hydrogen**
  - Steam Methane Reformers
  - Electrolyzers
  - Pipeline & Storage

**FEATURES**

- Rack, bench, panel and wallmount versions available
- Displays moisture content in dew / frost point and ppmv
- M Series or IQ probe moisture probe compatible
- Intrinsic safe operation of M Series probe with external zener barrier

### PM880

**Rugged intrinsically safe portable moisture meter for gases and liquids**

The PM880 is the number one hazardous area rated portable moisture meter on the market. It is designed to measure moisture in gases and hydrocarbon liquids across a broad spectrum of applications and industry segments. The compact and rugged design makes it suitable for use in the toughest of environments.

**APPLICATIONS**

- **Power Plant**
  - H₂ (cooling generator)
  - Instrument Air lines
  - SF₆ gas
  - Transformer oil
- **Refinery / Petrochemical**
  - Hydrocarbon Liquids
  - Hydrogen recycle gas
  - Utility gas / Instrument air
  - Ethylene
  - Polyethylene plant feeds
- **Natural Gas**
  - Natural gas pipelines
  - LNG, LPGs, NGLs
  - Biogas upgrading
- **Steel Plant**
  - Annealing Lines
  - Galvanisation Lines
  - Utilities
- **Industrial Gases**
  - Air Separation Units
  - Cylinder Filling
- **Pharmaceutical**
  - Utility air
- **Food & beverages**
  - CO₂ gas
- **Hydrogen**
  - Steam Methane Reformers
  - Electrolyzers
  - Pipeline & Storage

**FEATURES**

- Intrinsically safe in a rugged compact package
- Measures moisture in gases and hydrocarbon liquids
- Internal data logger
- Lightweight handheld sample system
- Large graphic display
- Compatible with MISP2 and M series aluminum oxide moisture probes
HygroPro™
Intrinsically safe moisture transmitter for use in gas and liquid applications

The intrinsically-safe HygroPro™ moisture transmitter measures the moisture content of gases and non-aqueous liquids in pipelines, natural gas, petrochemical, power generation, pharmaceutical, process and industrial applications.

APPLICATIONS

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FEATURES
- Intrinsically safe
- Ambient to ppb moisture levels using aluminum oxide moisture sensor
- Built-in temperature and pressure sensors
- Gas and liquid applications
- HART communication

HygroPro XP
Explosionproof aluminum oxide moisture transmitter for gas and liquid applications

HygroPro XP measures moisture concentration in gases and non-aqueous liquids in natural gas, petrochemical, refinery, hydrogen, industrial gas, and power generation applications.

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FEATURES
- Explosionproof
- Ambient to ppb moisture levels using aluminum oxide moisture sensor
- Built-in temperature and pressure sensors
- Gas and liquid applications
- HART communication
DewPro MMY30

Loop powered moisture transmitter for measurement in gases

The MMY30 is designed to measure dew point or ppm in gases at line or atmospheric pressure. An integral flow cell with filtration and flow regulation allows for easy implementation.

**APPLICATIONS**

- **Power Plant**
  - H₂ (cooling generator)
  - Instrument Air lines
  - SF₆ gas
- **Refinery / Petrochemical**
  - Utility gas / Instrument air
- **Natural Gas**
  - Natural gas pipelines
  - LNG, LPGs, NGVs
  - Biogas upgrading
- **Steel Plant**
  - Annealing Lines
  - Galvanisation Lines
  - Utilities
- **Industrial Gases**
  - Air Separation Units
  - Cylinder filling
- **Pharmaceutical**
  - Utility air
  - Instrument calibration
- **Food & beverages**
  - CO₂ gas
- **Hydrogen**
  - Steam Methane Reformers
  - Electrolyzers
  - Pipeline & Storage

**FEATURES**

- Loop powered, 4-20mA transmitter
- Integral filtering and flow regulation
- Hazardous area configurations available

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DewPro MMY31

Loop powered moisture transmitter for measurement in gases

The MMY31 is designed for inline installation in clean applications where trace moisture measurement is required and a bypass or extractive installation is not appropriate.

**APPLICATIONS**

- **Pharmaceutical**
  - Utility air
  - Instrument calibration
  - Environmental chambers
  - Glove boxes

**FEATURES**

- Loop powered, 4-20mA transmitter
- Hazardous area configurations available
Panametrics Aurora analyzer uses tunable diode laser absorption spectroscopy (TDLAS) to rapidly and accurately measure moisture in a variety of background gases. The concentration of water is directly related to the partial pressure. At certain specific frequencies, light energy will be absorbed by water molecules. As the concentration of water increases, the absorption also increases. Aurora analyzers sweep the diode laser output through a narrow spectrum of light frequencies. Comparing the return light intensity with the incident light intensity, the analyzer provides a direct measure of the water vapor pressure in PPMv and related units. With the input of line pressure, the moisture content is expressed as pressure dew point.

Benefits:

- Very fast response, especially after process upset
- Long-term stability, negligible drift
- Non-contact based measurement, suitable for harsh applications

Moisture Analysis

Laser Technology

The Aurora uses tunable diode laser absorption spectroscopy (TDLAS) to quickly and accurately measure moisture in gases, with speed of light response and minimum maintenance requirements.
Panametrics chilled mirror sensors use a thermoelectric cooling module to cool the mirror exposed to the flowing gas sample. Infrared light reflects off the mirror. The reflected light is received by a photodetector. As the mirror is cooled, and water vapor condenses on the mirror, the light received by the photodetector decreases due to absorption and scattering. The signal from the photodetector is utilized in a control loop to maintain a constant mass. A precision RTD measures the temperature of the mirror. This mirror temperature is by definition equal to the dew or frost point temperature.

**Benefits:**
- Direct fundamental measurement of dew / frost point
- High precision
- Long-term stability

**Optica**

**Chilled mirror based hygrometer for high accuracy moisture measurements in gases**

The Optica is a primary standard measurement device designed for industrial and laboratory applications requiring high precision without long term drift. It may be used with a number of chilled mirror sensors providing a wide measurement range.

**APPLICATIONS**

- Steel Plant
  - Annealing Lines
  - Galvanisation Lines
  - Utilities
- Industrial Gases
  - Air Separation Units
  - Cylinder filling
- Pharmaceutical
  - Utility air
  - Instrument calibration
  - Clean Room
- Food & beverages
  - Utility air
  - Instrument calibration
  - Clean Room
- Quality, Test & Calibration
  - Environmental test chambers
  - Engine test cells
  - Air conditioning and heat exchange coil testing
  - Metrology labs

**FEATURES**

- Measurements traceable to national standards
- 1/4 color VGA display
- Built-in data logger
- Multiple measurement units can be displayed and transmitted
- Patented PACER® cycle automatically cleans mirror to ensure measurement integrity
OptiSonde

Economical chilled mirror based hygrometer for high accuracy moisture measurements in gases

The OptiSonde is a primary standard device designed for process and laboratory measurements requiring high precision without long term drift. It may be used with a number of chilled mirror sensors providing a wide measurement range.

APPLICATIONS

- Steel Plant
  - Annealing Lines
  - Galvanisation Lines
  - Utilities
- Industrial Gases
  - Air Separation units
  - Cylinder filling
- Pharmaceutical
  - Utility air
  - Instrument calibration
  - Clean Room
- Food & beverages
  - Utility air
  - Instrument calibration
  - Clean Room
- Quality, Test & Calibration
  - Environmental test chambers
  - Engine test cells
  - Air conditioning and heat exchange coil testing
  - Metrology labs

FEATURES

- Measurements traceable to national standards
- Built-in data logger
- Multiple measurement units can be displayed and transmitted
- Patented PACER® cycle automatically cleans mirror to ensure measurement integrity
Moisture Analysis
Polymer Capacitance Technology

Panametrics relative humidity transmitters use a proven polymer capacitive sensor to provide a humidity measurement in the range of 0 to 100% RH. The sensor consists of a hygroscopic polymer sensing layer whose dielectric properties change depending on the amount of water vapor in contact with the sensing surface. This causes a change in the capacitance of the sensor which is then converted into a relative humidity reading.

**Benefits:**
- Good resistance to chemical vapors
- Ability to function at high temperatures (>100 °C)
- Fast speed of response
- Ability to recover from condensation or full water immersion

**MMR30**
Loop powered mid-range moisture transmitter

The MMR30 is designed for mid-range (5°F to 185°F/-15°C to 85°C) moisture applications such as refrigerated compressed air dryers. It is compact and can be easily installed in indoor or outdoor environments.

**APPLICATIONS**
- Power Plant
  - Gas turbine inlet air
- Pharmaceutical
  - Drying applications
  - Product validation
  - Tablet coating
  - ETO sterilisation
- Food & beverages
  - Dehydration applications
  - Fruit ripening
  - Coating
- Quality, Test & Calibration
  - Weather stations

**FEATURES**
- Loop powered 4-20mA transmitter
- Proven Polymer Capacitive sensor
- Integral filtering and flow regulation
- Optional integral display with user interface
MMR31
Loop powered mid-range moisture transmitter

The MMR31 is designed for relative humidity measurement (0–100%) applications. It is compact and can be easily installed in indoor or outdoor environments.

APPLICATIONS
- Pharmaceutical
  Drying applications
  Product validation
  ETO Sterilisation
- Food & beverages
  Dehydration applications
  Fruit ripening
  Coating
- Quality, Test & Calibration
  Humidity control
  Sterilization chambers

FEATURES
- Loop powered 4–20mA transmitter
- Proven Polymer Capacitive sensor
- Simple field recalibration with salt bottles
- Optional integral display with user interface
- Hazardous area options available

MMR101
Loop powered high temperature relative humidity transmitter

The MMR101 is designed for high temperature relative humidity (0–100%) applications. It’s rugged design is suitable for the harshest installations.

APPLICATIONS
- Steel Plant
  Blast gas humidification
- Pharmaceutical
  High temperature drying applications
- Food & beverages
  High temperature drying applications
- Quality, Test & Calibration
  High temperature drying applications

FEATURES
- Loop powered 4–20mA transmitter
- Proven Polymer Capacitive sensor
- Optional integral display with user interface
- Hazardous area options available
- Operating temperature up to 300°F (150°C)
Oxygen Analysis
Thermoparamagnetic Technology

Oxygen has the property of being attracted into a magnetic field. The Panametrics XMO2 thermoparamagnetic analyzer uses this paramagnetic property combined with heated thermistors to measure the oxygen concentration. This measurement technique along with the flow-through design and no moving parts ensure a stable measurement, long-term calibration stability, and immunity to process upsets.

Benefits:
- No Moving Parts
- Infrequent Calibration
- Simple, Easy to use
- Automatic Calibration / Verification
- Minimized Cost of Ownership
- Compact design reduces cost in system solutions

XMO2
Proven robustness in hazardous area oxygen analysis in gas applications

Designed for stability and longevity in hazardous area locations, the XMO2 provides high accuracy percent-level measurements and easily recovers from process upsets.

APPLICATIONS
- Refinery / Petrochemical
  - Inerting of Storage Tanks
  - Hydrocarbon Gas Supply
  - Hydrogen Recycle Gas
  - Ethylene/Polyethylene Plant
- Natural Gas
  - Biogas Processing
- Steel Plant
  - Heat treatment Processes
- Industrial Gases
  - Percent Oxygen Analysis
- Pharmaceutical
  - Storage Tanks for Liquid Hydrocarbons
  - Centrifuges and Reactors
  - Ambient Atmosphere Monitoring
  - Carbon Reactivation
  - Reaction Optimization
- Food & beverages
  - Inert Gas Packing
  - Prevention of Oxidation of Dry Powders
- Quality, Test & Calibration
  - Waste Water Treatment

FEATURES
- Background gas compensation
- Push button field calibration
- No moving parts assuring trouble-free operation
- Class 1 Div 1 / ATEX and IECEx zone 1 as standard
Panametrics’ oxy.IQ utilizes galvanic fuel cell technology to measure trace and percent-level oxygen in gases. Oxygen in the gas flowing through the chamber reacts at the cathode to form ions that travel to the anode, converting from lead to lead oxide. The resultant current is proportional to the amount of oxygen. The oxy.IQ uses an advanced galvanic fuel cell, a self-contained cell that requires no electrolyte refueling or electrode replacement, providing superior performance, accuracy, stability and long life. The oxy.IQ is insensitive to background gas changes with drop-in sensors that cover different concentration ranges, with a special sensor option for acid gas compositions.

Benefits:
- Compact design allows installation flexibility
- Proven galvanic fuel cell technology
- Background gas insensitivity
- Acid gas sensor options

Oxy.IQ
Highly reliable and cost effective oxygen measurement, all in a compact intrinsically safe package

Designed for installation flexibility, the oxy.IQ is a two wire loop powered transmitter with 17 percent- and ppm-level oxygen ranges. oxy.IQ combines proven sensor technology, an intuitive user interface, and a compact design in an intrinsically safe package perfect for oxygen measurement in a variety of background gases.

APPLICATIONS
- Power Plant
  Oxygen measurement H₂ cooled generators
- Refinery / Petrochemical
  Catalytic reformer for recycle hydrogen
  Isomerization unit for recycle hydrogen
  Butamer unit off-gas
  Hydrotreater for recycle hydrogen
  Fuel gas / off-gas
- Natural Gas
  Natural gas pipelines
  Biogas processing
- Steel Plant
  Heat treatment Processes
- Industrial Gases
  Nitrogen Generators
  Oxygen Applications
- Pharmaceutical
  Glove Box Applications
- Food & beverages
  Inert Gas Packaging
  CO₂ Purity (Breweries)
- Hydrogen
  Water Electrolysis: traces of oxygen in hydrogen

FEATURES
- Compact and innovative design, easy installation and system solution flexibility
- Built-in microprocessor, intuitive user interface to easily select range, trim outputs and perform calibration
- User-selectable ranges, calibration, sensor diagnostics with keypad simplifies programming
- Maintenance-free device
Panametrics delivers Delta F oxygen sensor technology as a standard sensor input to the Panametrics flagship moisture.IQ analyzer. The oxygen from the sample takes part in a reaction. The voltage applied to the electrodes is the driving force. At the cathode, the oxygen is first converted into hydroxyl ions. These hydroxyl ions travel through the electrolyte to the anode where it is converted back to oxygen. The current is a direct measurement of the hydroxyl ion transport and therefore proportional to the oxygen concentration. Nothing is consumed in making the measurement.

**Benefits:**
- Non-depleting oxygen sensor
- Sensitivity down to a ppb-level oxygen
- Fast response to changes in oxygen concentration
- Short recovery time after exposure to high concentrations
- Ability to work in acid gases using Stab-El electrodes

**Oxygen Analysis**

**Non-depleting Electrochemical**

**Delta F**

**Delivering ultra-stable, trace oxygen analysis in industrial gas applications**

The Delta F non-depleting, coulometric oxygen sensor provides ultra-stable oxygen measurement and requires only an annual span calibration. Combined with Panametrics’ moisture.IQ, this offers a cost effective six-channel solution for multi-point oxygen measurement covering ppm and ppb measurements. The Delta F sensor is particularly suited to applications requiring high sensitivity measurements for process control.

**APPLICATIONS**

- **Refinery / Petrochemical**
  - Ethylene
  - Polyethylene plant feeds
- **Steel Plant**
  - Heat treatment Processes
- **Industrial Gases**
  - Air separation units (\(N_2, Ar, O_2, H_2\))
  - Cylinder filling
- **Pharmaceutical**
  - Glove Box Applications

**FEATURES**

- Ultra-stable coulometric measurement technology
- Non-depleting sensor
- Fast response times
- Unique combination with moisture.IQ offers up to 6-channels of moisture and oxygen
- Safe and hazardous area configurations
Panametrics offers a suite of local displays/controllers that connect to the blind oxygen and binary gas transmitters providing power and local read-out. Additional features include alarm contacts, additional analog outputs, and auto-calibration functionality.

Benefits:
- Sensor installed at point of use
- Display installed where needed for visual indication
- Auto-calibration / verification capabilities
- Provides DC power to the transmitters when AC power is available

Multi-function Displays

In addition to offering a local display, the auto-calibration and verification functionality of the XDP complements the XMO2 and XMTC transmitters with even lower maintenance and calibration requirements, offering a full solution package. The advanced micro-processor control compares calibration readings with factory settings to verify calibration. Corrections are automatic with user notification.

XDP

Offering added functionality to Panametrics transmitters, the XDP is more than just a fully certified explosion-proof display

FEATURES
- Full solution enabler to compliment the XMO2, XMTC and oxy.IQ with added functionality
- 4 relay output for solenoid control
- Very low maintenance requirement and reduced touch time of other transmitters
- Class 1 Div 1 / ATEX and IECEx zone 1 as standard
- Calibration Curve Management

COMPATIBLE WITH

- XMO2
- XMTC
- oxy.IQ
Gas Analysis
Thermal Conductivity Technology

Thermal conductivity is a physical property, a fluid’s ability to dissipate heat. This property is useful in measuring concentrations in binary gas mixtures such as oxygen in hydrogen, carbon dioxide in methane, etc. Panametrics’ XMTC compares the thermal conductivity of the sample gas to that of a reference gas to determine the percent-level concentration of one gas in a two-gas mixture or multi-gas mixture of gases with similar thermal conductivities. The sample gas flows through the measuring cell with built-in thermistors. The thermal conductivity difference between the sample and reference, when compared to the zero and span gas calibration, is directly proportional to the gas concentration. The XMTC can reliably measure percent-levels of one gas in another, when the two gases have sufficiently different thermal conductivities.

Benefits:
- Compact, rugged, no moving parts
- Enhanced signal measurement
- Real-time error detection
- Digital communication
- Flexible calibration, various gas combinations
- Minimal calibration and service

XMTC
High accuracy analysis in a compact binary gas analyzer

The XMTC is a compact, reliable, and field-proven thermal conductivity analyzer for safety and measurement applications. Certified for hazardous area environments, the XMTC is a cost effective analyzer in a compact transmitter design for percent measurement of one gas in another.

APPLICATIONS

- Power Plant
  - Hydrogen-Cooled Generators
- Refinery / Petrochemical
  - Catalytic Reformer for Recycle Hydrogen
  - Isomerization Unit for Recycle Hydrogen
  - Butamer Unit Off-Gas
  - Hydrotreater for Recycle Hydrogen
  - Fuel Gas/Exhaust Gas
- Natural Gas
  - Biogas processing
- Steel Plant
  - Heat treatment Processes
- Industrial Gases
  - Air separation units (N₂, Ar, O₂, H₂)
  - Cylinder filling
- Food & beverages
  - CO₂-purity (Breweries)
- Hydrogen
  - Water Electrolysis: Hydrogen and Oxygen Analysis

FEATURES
- One-button field calibration
- Ultra stable thermistors
- Temperature compensation for reduced temperature effect
- Compact sensor Assembly
- Class 1 Div 1, ATEX and IECEx Zone 1, IP66/4X
TMO2D

Added functionality in a cost effective package, this safe area display compliments the Panametrics analyzers with increased functionality and control

The TMO2D offers auto-calibration and verification control to support the XMO2, XMTC and oxy.IQ analyzers. This package comes in user selectable form factors which offers reduced maintenance and alarm outputs.

COMPATIBLE WITH
- XMO2
- XMTC
- oxy.IQ

FEATURES
- Single or dual isolated 4–20mA outputs
- Up to four field-configurable process alarms
- Automatic calibration relays for autocalibration of XMO2 and XMTC
- Calibration Curve Management
Sample Conditioning Systems

Save money and time with the right sample system from the application experts

Sample handling systems are essential for getting top performance from your process analyzer systems. To get the right sample system for your application, turn to Panametrics, the analyzer application expert with more than 50 years of design experience. Couple Panametrics process analyzers with the appropriate Panametrics sample handling and you will have reliable, accurate, and low maintenance measurements.

Features and benefits:
Panametrics sample systems ensure the performance of an analyzer by supplying a sample to the analyzer at optimal pressure, temperature, flow rate, and free from contaminants. Designed specifically to meet the needs of your Panametrics analyzers, Panametrics sample systems reduce cost and downtime by:

- Providing better measurement accuracy and reliability
- Extending analyzer life
- Minimizing analyzer maintenance and associated parts and labor
- Facilitating field calibration

Application engineering is the difference

Our application and service engineering teams possess the expertise to provide a comprehensive sample system designed and built for your specific situation. We know how our analyzers perform in your applications and how our sample handling systems can help deliver the best measurements. We offer a cost-effective source for complete analyzer packages.

- Standard systems for common applications
- Engineered systems for customer-specific requirements
- Design, construction, and inspection of all systems
- Installation guidance
- Start-up and commissioning
- Calibration
- Extended warranties and service plans for analyzer systems
Panametrics, a Baker Hughes business, provides solutions in the toughest applications and environments for moisture, oxygen, liquid and gas flow measurement. Experts in flare management, Panametrics technology also reduces flare emissions and optimizes performance.

With a reach that extends across the globe, Panametrics' critical measurement solutions and flare emissions management are enabling customers to drive efficiency and achieve carbon reduction targets across critical industries including: Oil & Gas; Energy; Healthcare; Water and Wastewater; Chemical Processing; Food & Beverage and many others.

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For more information please contact your local Panametrics representative, or visit:

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