

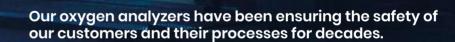
Maximum safety, optimum efficiency

Oxygen sensor technology calibrated to improve your process



Maximizing safety and efficiency in high risk environments

demands sensor technology you can rely on.



As a recognized leader in gas analyzers, you can be confident knowing that our solution will have the best combination of technology and expertise to guarantee your process measurements. With no moving parts, our analyzers are designed for the toughest applications. Partnering with Panametrics doesn't just bring you reliability and consistency in measurements though, it offers fully customized solutions unique to your process and supported by local technical teams.

Our technology and application specialists are experts in designing the best solutions in gas analysis for the petrochemical, pharmaceutical, energy, steel, food & beverage and industrial gas industries. Our global network ensures our partners get first class local support for all aftermarket needs such as start-up commissioning, calibration services and product training.

Panametrics

a Baker Hughes business

Market Matrix

	XMO2	хмтс	oxy.IQ	DeltaF	CGA351	XDP	TMO2D
Power Plant		•	•				•
Refinery				•			
Petrochemical Plant			•	•	•		•
Natural Gas					•		
Steel Plant				•			
Industrial Gases							
Pharmaceutical							
Food & Beverages							
Water/Waste Water							

XMO2pro

Proven robustness in hazardous area oxygen analysis

The XMO2pro with optional SIL 2 certification was developed for stability and longevity when measuring oxygen content in the percentage range, can easily recover from process failures and delivers highly accurate measurements, especially in explosion-hazard areas.

APPLICATIONS



Power Plant

H2 (cooling generator)



Refinery / Petrochemical Plant / Natural Gas Application



Hydrocarbon gas feed Hydrogen recycle gas



Liquid HC storage tanks Natural gas pipelines Ethylene/polyethylene plant Biogas upgrading



Steel Plant

Annealing furnaces



Pharmaceutical

Liquid HC storage tanks Centrifuges Reactors Ambient monitoring

Reactivation of carbon



Industrial gases application

Percent oxygen



Food and Beverage

Oxidization prevention of dry powders



Waste Water

Oxygen measurement in waste water digester gas



- Background gas compensation
- Intuitive Operator Interface on a Multiparameter Display
- No moving parts assuring trouble-free operation
- Class 1 Div 1/ATEX and IECEx zone 1 as standard
- SIL 2 by Design (Optional)

XMTCpro

High accuracy analysis in a compact binary gas analyzer

The XMTCpro with optional SIL 2 certification is a compact, reliable and field proven thermal-conductivity analyzer, best used when safety is a priority. Configured for Class 1 Div 1/ zone 1 environments and with solvent resistant versions, the XMTCpro is a highly versatile and cost effective analyzer used for percent measurement in known gas compositions.

APPLICATIONS



Power Plant

H2 (cooling generator)



Refinery / Petrochemical Plant / Natural Gas Application



Biogas upgrading

Catalytic reformer for recycle hydrogen Isomerization unit for recycle hydrogen

Butamer unit off-gas Hydrotreater for recycle hydrogen Fuel gas/Off gas



Industrial Gases

Air separation units (N2/Argon/O2/H2) Cylinder filling



Food and beverages

CO2-purity (breweries)



- Class 1 Div 1/ATEX and IECEx zone 1 as standard
- IP66/4X rated for internal/external use
- No moving parts assuring trouble-free operation
- · Push button field calibration



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

Designed with usability and customer integration as a priority, the oxy.IQ is a two wire loop powered transmitter with 17 different percent and ppm scales for oxygen analysis. Leveraging proven sensor technology, the oxy.IQ combines all of these features in an intrinsically safe package perfect for oxygen measurement in a variety of background gases.

APPLICATIONS



Power Plant

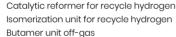
Oxygen measurement H2 cooled generators



Refinery / Petrochemical Plant / Natural Gas Application



Biogas upgrading



Hydrotreater for recycle hydrogen Fuel gas/off gas



Steel Plant

Annealing furnaces



Industrial Gases

Nitrogen generators Oxygen impurities



Pharmaceutical

Glovebox applications



Food and beverages

CO2-purity (breweries)



- Intrinsically safe option for Class 1
 Div 1/ATEX and IECEx zone 0 locations
- Low maintenance, economical and compact
- · Flameproof option available
- Non-incendive without Zener barriers for class 1 Div 2, US only
- · Sensor lifetime indicator
- Display Auto ranging

DeltaF

Delivering ultra stable oxygen analysis across the full measurement range and optimized for industrial gas applications

The DeltaF non-depleting coulometric cell 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 the full span of ppm and percentage measurements. The DeltaF is particularly suited to applications requiring process and quality control.

APPLICATIONS



Refinery / Petrochemical Plant / Natural Gas Application



Natural gas pipelines Ethylene plant – oxidization prevention





Steel Plant

Annealing furnaces



Industrial Gases

Air separation units (N2/Argon/O2/H2) Cylinder filling



Pharmaceutical

Glovebox applications



- Ultra stable coulometric measurement technology
- Low cost of ownership with span calibration
- · Fast response times
- Combined with the moisture.IQ offers a 6 channel analyzer and intrinsically safe DeltaF
- · Class 1 Div 1/ATEX and IECEx zone 1



Offering added functionality to Panametrics transmitters, the XDP is more than just a fully certified Ex Proof display

In addition to offering a local display, the auto-calibration and verification functionality of the XDP compliments 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.

APPLICATIONS



Power Plant

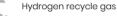
Hydrogen cooled generators custom software



Refinery / Petrochemical Plant / Natural Gas Application



Hydrocarbon gas feed



Liquid HC storage tanks Natural gas pipelines

Ethylene/polyethylene plant

Biogas upgrading Catalytic reformer for recycle hydrogen Isomerization unit for recycle hydrogen

Butamer unit off-gas Hydrotreater for recycle hydrogen Fuel gas/off gas



Steel Plant

Annealing furnaces



Industrial Gases

Air separation units (N2/Argon/O2/H2) Cylinder filling



Pharmaceutical

Liquid HC storage tanks Centrifuges

Reactors

Ambient monitoring



Food and beverages

CO2-purity (breweries)



- 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

TMO2D

Added functionality in a cost affective 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.

APPLICATIONS



Power Plant

Hydrogen cooled generators custom software

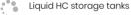


Refinery / Petrochemical Plant / Natural Gas Application



Hydrocarbon gas feed

Hydrogen recycle gas



Natural gas pipelines Ethylene/polyethylene plant

Biogas upgrading

Catalytic reformer for recycle hydrogen Isomerization unit for recycle hydrogen

Hydrotreater for recycle hydrogen

Butamer unit off-gas

Fuel gas/off gas



Steel Plant

Annealing furnaces



Industrial Gases

Air separation units (N2/Argon/O2/H2) Cylinder filling



Pharmaceutical

Liquid HC storage tanks Centrifuges

Centinage

Reactors

Ambient monitoring



Food and beverages

CO2-purity (breweries)



- Single or dual isolated 4-20mA outputs
- Up to four field-configurable process alarms
- Automatic calibration relays for autocalibration of XMO2 and XMTC

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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