

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.

Our oxygen analyzers have been ensuring the safety of our customers and their processes for decades.

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.



a Baker Hughes business

Market Matrix

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

XMO2

Proven robustness in hazardous area oxygen analysis

Designed for stability and longevity in oxygen percent measurement, the XMO2 can easily recover from process upsets and maintain high accuracy readings in hazardous 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



KEY 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


XMTC


High accuracy analysis in a compact binary gas analyzer


The XMTC 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 XMTC 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)



KEY FEATURES


- 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


oxy.IQ


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
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**
Nitrogen generators
Oxygen impurities

-  **Pharmaceutical**
Glovebox applications

-  **Food and beverages**
CO2-purity (breweries)



KEY FEATURES


- 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



KEY FEATURES


- 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


CGA351


Super fast response times covering all oxygen ranges in clean gas applications

The fastest responding oxygen measurement technology which is ultra stable and covers low ppm to percent measurements. Single point calibration compliments a low maintenance analyzer particularly suited for clean gas operations where speed of response and accuracy are key requirements.

APPLICATIONS

-  **Refinery / Petrochemical Plant / Natural Gas Application**
CDU – N2 Plant

-  **Industrial Gases**
Air separation units (N2/Argon/O2/H2)

-  **Pharmaceutical**
Glovebox applications



KEY FEATURES


- T90 response time in <2 seconds
- Increased accuracy at lower ppm levels
- Measures from 0.1ppm to 100% oxygen


XDP


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 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.


APPLICATIONS


-  **Power Plant**
Hydrogen cooled generators
custom software

-  **Refinery / Petrochemical Plant / Natural Gas Application**
Hydrocarbon gas feed
Hydrogen recycle gas
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)



KEY FEATURES


- Full solution enabler to complement 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 effective package, this safe area display complements 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
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Natural gas pipelines
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Biogas upgrading
Catalytic reformer for recycle hydrogen
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-  **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)



KEY FEATURES

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

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