

Oxygen & Gas Sensors Product Guide

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.



Industry applications

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

									
XMO2pro	✓	✓	✓	✓	✓	✓	✓	✓	✓
XMTCpro	✓	✓	✓	✓	✓	✓		✓	
oxy.IQ	✓	✓	✓	✓	✓		✓	✓	
DeltaF		✓	✓	✓	✓	✓	✓		
CGA351		✓	✓	✓		✓	✓		
XDP	✓	✓	✓	✓	✓	✓	✓	✓	✓
TMO2D	✓	✓	✓	✓	✓	✓	✓	✓	✓

Key to industries

 Power Plant

 Refinery

 Petrochemical Plant

 Natural Gas

 Steel Plant

 Industrial Gases

 Pharmaceutical

 Food and Beverages

 Water & Wastewater

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



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
Percent oxygen



Food and Beverages
Oxidization prevention of dry powders



Water & Wastewater
Oxygen measurement in waste water digester gas



Features

- 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



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)



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

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)



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

Delta F

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
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



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 I Div 1/ATEX and IECEx zone 1



For more information please
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representative, or visit:
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