Maximum safety, optimum efficiency

Oxygen sensor technology calibrated to improve your process
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.
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**
  - Oxidation 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 I Div I/ATEX and IECEx zone I 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

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**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

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refinery / Petrochemical Plant / Natural Gas Application</td>
<td>Natural gas pipelines</td>
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<tr>
<td></td>
<td>Ethylene plant – oxidation prevention</td>
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<tr>
<td>Steel Plant</td>
<td>Annealing furnaces</td>
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<tr>
<td>Industrial Gases</td>
<td>Air separation units (N2/Argon/O2/H2)</td>
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<td></td>
<td>Cylinder filling</td>
</tr>
<tr>
<td>Pharmaceutical</td>
<td>Glovebox applications</td>
</tr>
</tbody>
</table>

### 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

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## 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

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<tbody>
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<td>Refinery / Petrochemical Plant / Natural Gas Application</td>
<td>CDU – N2 Plant</td>
</tr>
<tr>
<td>Industrial Gases</td>
<td>Air separation units (N2/Argon/O2/H2)</td>
</tr>
<tr>
<td>Pharmaceutical</td>
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### KEY FEATURES

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

KEY 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 I/ATEX and IECEx zone 1 as standard

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)

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.

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

APPLICATIONS
- Power Plant
  - Hydrogen cooled generators
  - custom software
- Refinery / Petrochemical Plant / Natural Gas Application
  - Hydrocarbon gas feed
  - Hydrogen recycle gas
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