

GE

Measurement & Control

Moisture and Gas Measurement Solutions

GE Measurement & Control combines a long, well recognized brand heritage of General Eastern and Panametrics in a line of moisture, oxygen, and hydrogen analyzers to solve the toughest applications. With a wide breadth of sensor technologies from which to choose, GE can evaluate the application and select the best sensor technology to meet the requirements, based on factors such as measurement range, accuracy, speed of response, background gas capability, size and cost.

GE manufactures a broad offering of instruments and transmitters, which can couple multiple measurement points and modalities in a single package, reducing the amount of spare parts, simplifying training for equipment users and lowering the overall total cost of ownership. In addition to supplying the measurement equipment, GE manufactures calibration instruments to ensure accurate and reliable performance of field devices. GE's staff of experienced application engineers has deep domain expertise and design capability to integrate the appropriate sensor technology in a customized sample system, providing a complete measurement solution.

From highly accurate chilled mirror sensors to robust aluminum oxide and thermoparamagnetic sensors to the latest innovation of fast responding tunable diode sensors, GE has a comprehensive moisture and gas offering. Coupled with application expertise, national standard laboratory calibration, and global service capability, GE can offer accurate and long lasting solutions for moisture, oxygen, and hydrogen analysis.



Segments and Applications

- Refining
- Petrochemical
- Combustion efficiency
- Natural gas
- Vapor recovery
- Power generation
- Industrial gas
- Compressed air
- Air separation & high purity gases
- Steel
- Semiconductor
- Pharmaceutical
- Metrology



Tunable Diode Laser Absorption Spectroscopy

- Fastest responding and high accuracy moisture measurement for natural gas, hydrogen recycle gas, and industrial gases
- Stand-alone explosion-proof design with integral sampling system
- Wide-measurement range



Aluminum Oxide Trace Moisture

- Full line of multi-functional analyzers, transmitters, and portable packages
- Explosion-proof, intrinsically-safe, and general purpose solutions
- Field-proven technology
- Liquid measurement capability
- Standard and custom sample system designs



Chilled Mirror

- Primary standard for humidity measurement
- General Eastern legacy of quality and stability
- Packages for laboratory and industrial applications
- Multi-stage sensors offering dew-point ranges from -80°C to +75°C (-112°F to +167°F)



Industrial Relative Humidity

- Polymer capacitive technology
- Rugged industrial design
- In-situ humidity measurements in temperatures up to 150°C (302°F)



Thermoparamagnetic Oxygen Analysis

The XMO2 thermoparamagnetic sensor provides the most stable and drift-free oxygen measurement available on the market today.

- Stable and drift-free sensor technology
- Automatic compensation for background gas
- % O₂ LEL for inerting
- % O₂ control for optimizing reaction processes
- O₂ in N₂ applications



The Panametrics APX offers the enhanced performance in hydrocarbon gases with automatic compensation for background gas effects.



Galvanic Fuel Cell Oxygen Analysis

The oxy.IQ with galvanic fuel cell oxygen sensor provides high accuracy and low cost. It is a versatile, intrinsically safe loop-powered transmitter for ppm or % measurement in acid gases or in non-acid gases.

- High accuracy and low cost fuel cell sensor technology
- Intrinsically safe, loop-powered transmitter
- ppm or % O₂ in acid gases or non-acid gases



Zirconium Oxide Oxygen Analysis

The CGA351 zirconium oxide oxygen analyzer measures O₂ from 0.1 ppm to 100% in high-purity inert gases. Its advanced zirconium oxide sensor provides fast speed of response with drift-free performance and minimal maintenance requirements. It is ideal for applications such as:

- Fast speed of response
- Drift-free sensor technology with minimal maintenance requirements
- 0.1 ppm to 100% O₂ in high purity inert gases



Thermal Conductivity Hydrogen Analysis

The XMTC binary gas analyzer measures gases such as H₂, CO₂, CH₄, He and argon by thermal conductivity. Typical applications include:

- Binary gas analyzer
- Measures gases such as H₂, CO₂, CH₄, He and argon by thermal conductivity



Start-up Assistance and Calibration Services

We have field service teams located globally to assist with start-up, regular maintenance and calibration. Contact us for services or for a custom service agreement.



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