

Oxygen Gas Detection Gas Analyzer Featuring Infrared Sensors and Wall-mounted Design for Gas Monitoring in Industrial Facilities

Our Product Introduction

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Basic Information

- Brand Name: Gas Analyzer
- Model Number: 0009



Product Specification

- Signal Output: 4~20mA
- Measure Range: 10ppm~21%, 100ppm~21%, 1000ppm~21% O₂
- Usage: Oxygen Gas Detection
- Detecting Gas: Nitrogen/oxygen
- Sampling Method: Natural Diffusion
- Detection Principle: Catalytic / Infrared
- Accuracy: $\pm 0.5\%$ Of Reading
- Dimensions: 200mm X 100mm X 50mm
- Highlight: **infrared oxygen gas analyzer, wall-mounted gas detection analyzer, industrial gas monitoring analyzer**

Product Description:

The Gas Analyzer is an advanced and reliable device designed specifically for oxygen gas detection and other critical gas measurements in various industrial and environmental applications. Utilizing cutting-edge electrochemical sensor technology, this gas analyzer delivers highly accurate gas measurement, ensuring safety, efficiency, and compliance with regulatory standards. Its robust design and versatile capabilities make it an essential tool for industries where precise monitoring of gas concentrations is crucial.

One of the standout features of this Gas Analyzer is its application-specific process gas analysers, which allow it to measure a wide range of gases with exceptional precision. The device is capable of detecting oxygen (O2), carbon monoxide (CO), carbon dioxide (CO2), nitrogen monoxide (NO), nitrogen dioxide (NO2), sulfur dioxide (SO2), and hydrogen sulfide (H2S). This comprehensive measurement capability makes it suitable for diverse environments, including manufacturing plants, chemical processing, environmental monitoring, and safety systems.

The heart of the Gas Analyzer is the electrochemical sensor, a technology known for its sensitivity and selectivity. Electrochemical sensors operate by producing an electrical signal proportional to the concentration of the target gas, which enables the analyzer to provide real-time, accurate readings. This sensor type is particularly effective for detecting low concentrations of toxic and combustible gases, making the device indispensable for early warning systems and continuous monitoring.

In addition to its high measurement accuracy, the Gas Analyzer is designed to operate reliably under various environmental conditions. It supports a relative humidity of less than 95%, allowing it to function effectively in humid industrial settings without compromising sensor performance or data integrity. This durability ensures continuous and dependable operation, minimizing downtime and maintenance requirements.

The installation method of the Gas Analyzer is wall-mounted, which offers several practical advantages. Wall-mounted installation enables easy integration into existing infrastructure and ensures that the device is positioned optimally for gas detection within a facility. This setup also facilitates straightforward maintenance and calibration, further enhancing the usability and longevity of the product. Designed with user convenience and operational efficiency in mind, the Gas Analyzer features a clear and intuitive interface for monitoring gas levels. It provides real-time data output that can be used for immediate decision-making or integrated into broader control systems for automated responses. This makes it a critical component in maintaining safe working environments, optimizing industrial processes, and complying with environmental regulations.

Another key benefit of this Gas Analyzer is its adaptability to various application-specific process gas analysers, enabling customization for particular industry needs. Whether used in petrochemical plants, wastewater treatment facilities, or laboratories, the device's ability to measure specific gases with high accuracy ensures that it meets the stringent demands of different sectors.

In summary, the Gas Analyzer is a highly sophisticated and dependable solution for oxygen gas detection and multi-gas monitoring. Its electrochemical sensor technology, broad gas measurement range, and robust design make it an essential instrument for industries requiring highly accurate gas measurement. The wall-mounted installation method, combined with its capability to operate in humid environments, further enhances its practicality and effectiveness. By leveraging this Gas Analyzer, organizations can ensure safer operations, regulatory compliance, and improved process control through precise and reliable gas detection.

Technical Parameters:

Detection Principle	Catalytic / Infrared
Dimensions	200mm X 100mm X 50mm
Usage	Oxygen Gas Detection
Measure Range	10ppm~21%, 100ppm~21%, 1000ppm~21% O2
Ingress Protection	IP65
Sampling Method	Natural Diffusion
Measurement Gases	O2, CO, CO2, NO, NO2, SO2, H2S
Sensor	Electrochemical Sensor
Signal Output	4~20mA
Accuracy	±0.5% Of Reading

Applications:

The Gas Analyzer, model number 0009, originating from Suzhou, China, is a highly reliable and precise instrument designed for highly accurate gas measurement. This wall-mounted device is specifically engineered to detect nitrogen and oxygen gases with an impressive accuracy of ±0.5% of reading, making it an indispensable tool in various industrial and environmental monitoring applications.

One of the primary application occasions for the Gas Analyzer 0009 is in exhaust gas analyzers used in automotive and industrial emissions testing. Its ability to accurately measure nitrogen and oxygen concentrations helps ensure compliance with environmental regulations and supports efforts to reduce harmful emissions. The compact dimensions of 200mm x 100mm x 50mm allow for easy installation in confined spaces, while its capability to operate reliably under relative humidity levels of less than 95% ensures durability in diverse environmental conditions.

In addition to exhaust gas analysis, this Gas Analyzer model excels as an application-specific process gas analyser in manufacturing facilities where precise gas composition monitoring is critical. Industries such as chemical production, pharmaceuticals, and food processing benefit from its accurate detection of nitrogen and oxygen to maintain optimal process control, product quality, and safety standards. The wall-mounted installation method ensures that it can be conveniently integrated into existing control panels or monitoring stations without occupying excessive space.

Moreover, the Gas Analyzer 0009 is suitable for research laboratories and environmental monitoring stations where continuous and precise gas measurement is required. Its high accuracy and robust design enable consistent performance in various scenarios, including indoor air quality assessment and controlled atmosphere environments. This versatility makes it an essential instrument for professionals seeking dependable data on gas concentrations.

In summary, the Gas Analyzer 0009 from Suzhou, China, stands out as a versatile and highly accurate gas measurement device. Whether employed as an exhaust gas analyzer, an application-specific process gas analyser, or for environmental monitoring, its precision, compact size, and user-friendly wall-mounted installation make it a valuable asset across multiple industries and application scenarios.

Customization:

The Gas Analyzer model 0009, originating from Suzhou China, offers advanced product customization services tailored to meet your specific industrial needs. Utilizing a natural diffusion sampling method and equipped with a high-precision electrochemical sensor, this analyzer accurately measures specific gases including O₂, CO, CO₂, NO, NO₂, SO₂, and H₂S. Designed primarily for oxygen gas detection, it performs reliably even in environments with ambient humidity below 80%RH. Our industrial Process Gas Analyzers can be customized to suit various applications, ensuring optimal performance in monitoring and controlling gas concentrations. Trust the Gas Analyzer 0009 to provide precise and dependable measurement solutions that measure specific gases critical to your operations.



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