

Natural Diffusion Sampling Method Application-specific Process Gas Analysers Featuring Operation at Relative Humidity Less Than 95 Percent

Basic Information

- Brand Name: Gas Analyzer
- Model Number: 0009



Product Specification

- Ambient Humidity: <80%RH
- Signal Output: 4~20mA
- Accuracy: $\pm 0.5\%$ Of Reading
- Sampling Method: Natural Diffusion
- Sensor: Electrochemical Sensor
- Detecting Gas: Nitrogen/oxygen
- Ingress Protection: IP65
- Installation Method: Wall-mounted
- Highlight: **natural diffusion gas analyzer,
process gas analyzer humidity,
application-specific gas analyzer sampling**

Product Description:

The Gas Analyzer is a state-of-the-art device designed for precise and reliable measurement of various gases in industrial environments. Engineered with advanced infrared sensor technology, this analyzer offers highly accurate gas measurement, ensuring optimal performance and safety in numerous applications. It is especially suitable for oxygen gas detection, with a versatile measure range of 10ppm to 21%, 100ppm to 21%, and 1000ppm to 21% O₂, accommodating different sensitivity requirements for diverse industrial processes.

One of the standout features of this gas analyzer is its capability to detect multiple gases, including oxygen (O₂), carbon monoxide (CO), carbon dioxide (CO₂), nitrogen oxides (NO and NO₂), sulfur dioxide (SO₂), and hydrogen sulfide (H₂S). This broad detection range makes it an indispensable tool for monitoring and controlling emissions, ensuring compliance with environmental regulations, and maintaining workplace safety. The use of infrared sensors enhances the device's specificity and accuracy, minimizing interference from other gases and providing stable, repeatable measurements.

Designed with practicality in mind, the gas analyzer is wall-mounted, allowing for easy installation and integration into existing industrial setups. This installation method saves valuable floor space and facilitates quick access for maintenance and calibration. Its robust construction ensures durability and reliable operation even in harsh industrial environments, contributing to long-term operational efficiency.

As an application-specific process gas analyser, this device is tailored to meet the unique needs of various industrial sectors. Whether used in chemical plants, power generation facilities, or environmental monitoring stations, it delivers consistent and precise data critical for process optimization, safety management, and regulatory compliance. The analyzer's flexibility in measurement range and gas detection capabilities makes it suitable for a wide array of industrial process gas analyzers applications.

Moreover, the gas analyzer supports continuous monitoring, which is essential for identifying gas leaks, detecting hazardous conditions, and maintaining air quality standards. Its highly accurate gas measurement capabilities enable operators to make informed decisions based on real-time data, reducing downtime and preventing costly incidents. The integration of advanced infrared sensors also reduces maintenance requirements compared to traditional sensor technologies, lowering the total cost of ownership.

In summary, this Gas Analyzer is a reliable, versatile, and precise instrument designed to meet the demanding requirements of industrial gas detection. Its advanced infrared sensors, broad measurement range for oxygen, and capability to detect multiple gases make it a critical component in process control and safety systems. The wall-mounted design enhances usability and installation convenience, while its classification as an application-specific process gas analyser ensures it is optimized for targeted industrial processes. For industries seeking highly accurate gas measurement and dependable performance, this gas analyzer stands out as a premier choice among industrial process gas analyzers.

Technical Parameters:

Measure Range	10ppm~21%, 100ppm~21%, 1000ppm~21% O ₂
Sensor	Electrochemical Sensor
Ambient Humidity	<80%RH
Sampling Method	Natural Diffusion
Dimensions	200mm X 100mm X 50mm
Measurement Gases	O ₂ , CO, CO ₂ , NO, NO ₂ , SO ₂ , H ₂ S
Relative Humidity	<95%
Accuracy	±0.5% Of Reading
Installation Method	Wall-mounted
Signal Output	4~20mA

Applications:

The Gas Analyzer model 0009, proudly originating from Suzhou, China, is a highly versatile and precise device designed for detecting and measuring specific gases in various environments. Utilizing advanced catalytic and infrared detection principles combined with an electrochemical sensor, this compact analyzer (200mm x 100mm x 50mm) reliably measures specific gases such as O₂, CO, CO₂, NO, NO₂, SO₂, and H₂S. Its primary usage in oxygen gas detection makes it an indispensable tool across multiple industries and application scenarios.

In industrial settings, the Gas Analyzer 0009 is essential for monitoring hazardous gas levels to ensure worker safety and regulatory compliance. For instance, it measures specific gases like carbon monoxide (CO) and hydrogen sulfide (H₂S) in manufacturing plants, chemical processing units, and refineries, where gas leaks or harmful emissions could pose serious risks. It is also widely used in confined space entry operations, providing real-time data to workers and safety personnel before and during entry.

Environmental monitoring is another critical application occasion for this Gas Analyzer. Government agencies and environmental scientists rely on its accurate measurement of gases such as nitrogen oxides (NO, NO₂) and sulfur dioxide (SO₂) to assess air quality, track pollution sources, and implement control measures. It measures specific gases that are significant contributors to atmospheric pollution and acid rain, making it a vital instrument in environmental protection efforts.

In medical and laboratory environments, the Gas Analyzer model 0009 aids in respiratory gas analysis and research by precisely measuring oxygen (O₂) and carbon dioxide (CO₂) levels. Its portability and accuracy allow researchers and clinicians to monitor gas concentrations in real-time, facilitating better diagnostics and experimental control.

Additionally, this device is employed in the energy sector, such as in power plants and gas production facilities, where it measures specific

gases to optimize combustion efficiency and reduce harmful emissions. The combination of catalytic and infrared detection principles ensures reliable performance even in challenging conditions.

Overall, the Gas Analyzer 0009 offers a robust, accurate, and user-friendly solution for measuring specific gases across a wide range of scenarios, from industrial safety and environmental monitoring to medical research and energy production. Its compact design and sophisticated sensor technology make it an essential instrument for professionals requiring precise gas detection and analysis.

Customization:

Our Gas Analyzer Model 0009, originating from Suzhou China, offers highly accurate gas measurement tailored to your specific needs. Designed as a wall-mounted unit with compact dimensions of 200mm X 100mm X 50mm, this exhaust gas analyzer operates effectively under relative humidity conditions of less than 95%. It measures specific gases within a range of 10ppm~21%, 100ppm~21%, and 1000ppm~21% O₂ using advanced catalytic and infrared detection principles. Customize your Gas Analyzer to ensure precise monitoring and optimal performance for your application.



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