



PRODUCT
DATASHEET '25-26'

ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



Gaz-CEMS

Online Gas Analyzer

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Gaz-CEMS

Online Gas Analyzer

Gaz-CEMS is an advanced Online Gas Analyzer designed to deliver accurate and reliable monitoring even in harsh conditions with dust, moisture, and tar-laden gases.

Using Ultraviolet Differential Absorption Spectroscopy Technology (DOAS) technology, a single analyzer can simultaneously measure multiple gases such as SO_x, NO_x, CO, CO₂, O₂ and many more with minimal cross-interference and high precision.

Its fully automated operation, intelligent data management, and wide measurement range ensure low maintenance costs and seamless integration with centralized control systems.



Product Features

- **Low Cross-Interference:** Differential optical analysis minimizes interference from dust, moisture, and other background gases, ensuring reliable readings.
- **Control unit:** Fully automated testing, sampling, calibration, fault handling, and other operations.
- **Gas analysis unit:** Internal Gas Sensing unit can simultaneously measure the volume concentration of multi-component gases such as SO_x, NO_x, CO, CO₂, O₂ etc.
- **Low maintenance and operation cost:** touch screen, online monitoring and display of system operation status, no manual supervision required, greatly saving running costs.
- **Intelligent data management:** Data can be transmitted to the superior centralized control system through a variety of interfaces, providing real-time basis for remote monitoring and adjustment of on-site processes.
- **Wide Measurement Range:** Capable of measuring both low and high gas concentrations with high precision.



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Technical Specifications

Basic Specifications	
Components	SO, SO ₂ , NO, NO ₂ , CO, CO ₂ , O ₂
Measuring Technology	For SO, SO ₂ , NO, NO ₂ , CO, CO ₂ (Ultraviolet Differential Absorption Spectroscopy Technology (DOAS)) For O ₂ (Electro Chemical / Zirconia)
Range	SO, SO ₂ : 0-1000 ppm NO, NO ₂ : 0-1000 ppm CO, CO ₂ : 0-1000 ppm O ₂ : 0-25 %
Response Time	< 60 seconds
Repeatability	< 1 %
Linear Error	< ±1% F.S.
24h Zero Drift	< ±2% F.S.
24h Range Drift	< ±2% F.S.
Sample Gas Flow Range	1.5 L/min ± 0.2 L/min
Sample Gas Pressure Range	Current ambient pressure ± 10 kPa
Sample Gas Humidity Range	≤ 85%
Operating Temperature	-15 to 55 °C
Power Supply	AC (220 ± 22) V, (50 ± 1) Hz
Warm-up Time	≥ 120 minutes
Enclosure	Safe Area
Electrical Specification	
Communication	RS232 / RS485, 4-20 mA
Function Equipment	
Automatic Zeroing and Calibration	Built-in air pump to achieve automatic air zeroing and calibration (Depending on config)
Self-Diagnosis	With self-diagnosis function, the analyzer status can be checked online.





LET'S CONNECT!

Let's work together to find a solution that works for you



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