

# 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<sub>x</sub>, NO<sub>x</sub>, CO, CO<sub>2</sub>, O<sub>2</sub> 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<sub>x</sub>, NO<sub>x</sub>, CO, CO<sub>2</sub>, O<sub>2</sub> 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.



Basic Specifications	
Components	SO, SO <sub>2</sub> , NO, NO <sub>2</sub> , CO, CO <sub>2</sub> , O <sub>2</sub>
Measuring Technology	For SO, SO <sub>2</sub> , NO, NO <sub>2</sub> , CO, CO <sub>2</sub> (Ultraviolet Differential Absorption Spectroscopy Technology (DOAS)) For O <sub>2</sub> (Electro Chemical / Zirconia)
Range	SO, SO <sub>2</sub> : 0-1000 ppm NO, NO <sub>2</sub> : 0-1000 ppm CO, CO <sub>2</sub> : 0-1000 ppm O <sub>2</sub> : 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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