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In-Situ Continuous Emission Monitoring System for Flue Gas



【PRODUCT DESCRIPTION】

The In-Situ CEMS for flue gas uses DOAS technology with in-situ extractive sampling, enabling online real-time monitoring of SO₂, NO_x, humidity, O₂, etc. Widely used in thermal power, industrial, and civilian boilers.

【PRODUCT FEATURES】

- In-situ measurement: No gas extraction, eliminates pipeline loss and condensation, suitable for humid, dusty and corrosive flue gas.
- Quick response: Direct gas contact without sampling delay.
- Low maintenance: Less consumables than extractive CEMS.
- Durable probe: Heat & corrosion resistant, triple filtration (2/0.5/0.1μm) for harsh conditions.
- Small & light: Probe cabinet 480×230×490mm (20kg), control cabinet 480×160×490mm (10kg); no analyzer house required.

【TECHNICAL PARAMETERS】

Measurement Method	High-temperature in-situ extractive measurement		
Analysis Principle	UV DOAS technology; Humidity/Oxygen: Zirconia sensor		
Measuring Ranges			
NH3	0-100mg/m3(customizable)	SO ₂	0-50-7000mg/m3(customizable)
NO	0-50-1000mg/m3(customizable)	H ₂ O	0-40%(customizable)
NO2	0-100-1000mg/m3(customizable)	O ₂	0-25%(customizable)
Detection Limit	1mg/m3	Linear Error	≤±2%F.S.
Response Time T90	≤10s	Drift	≤±2%F.S.
Calibration Method	Span gas calibration, automatic zero calibration with clean air	Power Supply	220V±10%,50Hz