

1 / Continuous Emission Monitoring System(CEMS, Cold-dry Method)

【PRODUCT DESCRIPTION】

The TK-1000 Cold-dry CEMS is a fully extraction flue gas continuous monitoring system. It integrates four core subsystems for particulate matter, gaseous pollutants, flue gas parameters, as well as system control and data acquisition.

It realizes real-time online monitoring of flue gas particulate matter, SO2, NOx, temperature, pressure, flow rate, humidity and oxygen content. The system automatically calculates pollutant emission rate and total emissions, and supports wired and wireless data upload to designated monitoring platforms.



【 PRODUCT FEATURES】

- Equipped with PLC intelligent control and LCD flow display. It fully records operating data for reliable data audit.
- Dual-compressor condensation quickly removes water and heat to reduce SO2 loss. Multi-stage filtration and automatic back-blowing effectively avoid blockage, suitable for high-dust, high-humidity and corrosive harsh environments.
- Standard modular design ensures stable and simple operation. Fewer moving parts improve equipment reliability. All self-developed instruments feature high integration and perfect compatibility.

【TECHNICAL PARAMETERS】

Item		Parameter	
Measuring Principle	Gaseous Pollutant Analyzer (SUV-100)	SO ₂ , NO, NO ₂ , UV Differential Optical Absorption Spectroscopy (DOAS)	
		O ₂ : Electrochemical method	
	Particulate Matter Monitor (SDUST-100)	Laser backscattering / forward scattering	
	Temperature, Pressure & Flow Monitor (SVPT-100)	S-type Pitot tube	
	Humidity Monitor (SSD-100)	Limiting Current Method	
Data Acquisition and Processing	External Output Interfaces	Serial Port	3 RS232 interfaces
		3-channel RS232 Interfaces	8-channel analog output, 5-channel digital switch output, customizable expansion available as required
	System Software		SINZEN Online Monitoring Software
Cabinet Size (W×D×H)		(800x600x2000)mm	
Working Power Supply		220V AC, >8kW	
Working Air Source		Compressed air (0.6–0.8 MPa), clean and oil-free	
Operating Environment		Temperature: 15–30°C, relative humidity ≤60%	