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VOCs Online Monitoring System

【PRODUCT DESCRIPTION】

TK-1200 VOCs Online Monitoring System has three subsystems: VOCs monitoring, flue gas parameter monitoring, control and data acquisition.

It detects methane, total hydrocarbons, NMHC, benzene series, halogenated hydrocarbons and flue gas parameters. After dust removal and heat tracing, flue gas is analyzed by GC-FID module. The system calculates emission data and uploads it via wired or wireless network.

It is widely used in petrochemical, pharmaceutical, coating, rubber, plastic, metallurgy, electronics, printing and coating industries.



【PRODUCT FEATURES】

- Adopts on-line gas chromatography, a globally recognized method for VOCs detection.
- Full-process high-temperature heat tracing eliminates cold points to prevent sample loss. The unique fast bypass exhaust technology ensures rapid sampling response and reliable data.
- Equipped with multi-stage precision dust removal and low-adsorption pipelines with self-cleaning function, it backflushes impurities to avoid pipeline blockage. Suitable for harsh environments with high temperature, high humidity, high concentration and heavy dust.

【TECHNICAL PARAMETERS】

Item		Specification Index	
Measurement Principle	Gas Chromatograph (S7060)	Gas Chromatography with Flame Ionization Detection (GC-FID) principle	
	Temperature, Pressure & Flow Monitor (SVPT-100)	S-type Pitot tube differential pressure principle	
	Humidity & Oxygen Monitor (SSD-100)	O ₂ : Zirconia oxide principle; Humidity: Limiting current principle	
Data Acquisition & Processing	External Output Interface – Serial Port	Serial port	2-channel RS232 interfaces, expandable
	External Output Interface – Switch & Analog Ports	Switching & analog I/O	6-channel analog outputs, 4-channel digital switch outputs
	System Software	SINZEN Online Monitoring & Management Software	
Cabinet Dimensions (W×D×H)		(812×812×2000) mm	
Operating Power Supply		220V AC, >5kW (adjustable based on heat tracing pipeline length)	
Operating Gas Source		Clean, oil-free compressed air, 0.6–0.8 MPa	
Operating Environment		Temperature: 15–30°C; Relative Humidity ≤85%	