

23 / Cement Kiln Gas Analysis System

【PRODUCT DESCRIPTION】

Large amounts of gas are produced in cement production. Gas analysis helps optimize production, save energy and ensure safety and environmental compliance.

Developed for harsh working conditions, TK-4000 series features automatic sampling, pretreatment and self-purging. It is essential for efficient and safe cement production.



【PRODUCT FEATURES】

- The system consists of sampling probe, pretreatment unit and gas analyzer for online gas component concentration measurement. It features fully automatic PLC control, LCD display and standard 4~20mA analog output, enabling synchronization and interlock with industrial computers for non-stop monitoring.
- Fitted with imported electrochemical and infrared sensors, it continuously detects different gases. An imported vacuum pump draws sample gas, which is filtered by the probe. The probe filter is regularly cleaned via PLC-controlled pulse backblowing. Teflon pipes with electric heat tracing prevent gas component loss and condensate formation during delivery.

【TECHNICAL PARAMETERS】

Monitoring Point	Measured Component	Range	Purpose
High-temperature chamber at kiln inlet	CO	0-2%	Optimization Control
	O ₂	0-10%	
	NO _x	0-2000 ppm	
Decomposing furnace inlet & outlet	CO	0-2%	
	O ₂	0-10%	
Preheater outlet or high-temperature fan outlet	CO	0-2%	
	O ₂	0-10%	
Kiln inlet electrostatic precipitator inlet	CO	0-2%	Safety Monitoring
Coal mill electrostatic precipitator outlet	CO	0-2000 ppm	
Kiln inlet baghouse outlet	CO	0-2%	
Coal mill electrostatic precipitator outlet & inlet	CO	0-2000 ppm	
Wet-process cement electrostatic precipitator	CO	0-2%	Safety Monitoring
Coal pulverizing bin	CO	0-2000 ppm	