

EXPEC 2000 FT Flue Gas Emissions Continuous Monitoring System

Overview

EXPEC 2000 FT flue gas emission continuous monitoring system adopts Fourier transform infrared spectroscopy (FTIR) technology, through the measurement and analysis of the infrared "fingerprint" characteristic absorption spectrum of the pollutant gas components, to realize the qualitative and quantitative online monitoring of characteristic factors, such as SO₂, NO_x (NO, NO₂), CO, CO₂, HCl, HF, CH₄, NH₃, etc. The system consists of a gaseous pollutant monitoring subsystem, a smoke dust (particulates) monitoring subsystem, a flue gas parameter monitoring subsystem, and a data acquisition and processing subsystem, It is often used in on-line monitoring of waste incineration, on-line monitoring of ultra-low emissions, and carbon monitoring.

The product meets the requirements of below standards:

- "Technical Specifications for Continuous Monitoring of Flue Gas Emissions from Stationary Pollution Sources" (HJ 75-2017)
- "Technical Requirements and Testing Methods for Continuous Monitoring Technology System of Flue Gas Emission from Fixed Pollution Sources"(HJ 76-2017)
- "Pollutant Online Monitoring (Monitoring) System Data Transmission Standard" (HJ 212-2017)
- "Domestic Waste Incineration Fixed Source Flue Gas (Particulates, SO₂, NO_x, HCl, CO) Emissions Continuous Monitoring System Technical Requirements and Testing Methods (Testing Operation Instructions)" (China Environmental Monitoring Center)



Advantage

➤ Total thermal design

The system adopts whole 180°C high temperature heating, no cold point design, no water vapor condensation, avoid high boiling point component attachment, suitable for high temperature/high humidity/high corrosion conditions

➤ Highly automated

Optional analog gas generator can be used for instrument quality control and calibration, while with unattended regular automatic calibration function, high degree of automation, small maintenance

➤ Fully independent research and development

The core module gas chamber and interferometer in the high-performance FTIR analyzer are all independently developed, with strong anti-interference and strong stability

➤ Simultaneous analysis of multiple components

One machine can monitor at the same time, SO₂, NO_x, CO, CO₂, HCl, HF, CH₄ and many other factors, greatly saves the expansion costs

➤ Various communication methods

It has RS232/485, 4~20mA, LAN and other communication methods



Specification

Item		Inde	Item		Index
Gaseous Pollutant Monitoring	SO ₂	(0~1000) mg/m ³ , customizable	Flue gas Parameter Monitoring	Temperature	(0-300)°C、(0-500)°C
	NO _x	(0~1000) mg/m ³ , customizable		Pressure	(0-300) Pa、(0-1000) Pa、(0-2000) Pa
	CO	(0~1000) mg/m ³ , customizable		Flow speed	(1-15) m/s、(2-30) m/s、(2-40) m/s
	HCl	(0~1000) mg/m ³ , customizable	Particulate Monitoring	Measure range	Min: 0~5 mg/Nm ³ 、Max: 0~200 mg/Nm ³
	HF	(0~300) mg/m ³ , customizable		Zero point drift	±2.0% F.S.
	CO ₂	(0~30) %		Range drift	±2.0% F.S.
	H ₂ O	(0~40) %	Spectral library		Support self-built spectral library
	O ₂	(0~25) %	Power supply		220VAC 50Hz
	Zero point drift	within ±2.5% F.S. (calculated as SO ₂)	Working humidity		(20-90) % RH
	Range drift	within ±2.5% F.S. (calculated as SO ₂)	Working temperature		(5 ~ 35) °C

Application



- Domestic waste incineration
- Medical waste incineration
- Dangerous waste incineration
- Solid waste incineration
- Coal/oil/gas power factory
- Iron and steel metallurgy
- Cement factory
- Petrochemical industry

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