KF300 LCD Display Continuous Emission Monitoring System Automatic For Metallurgical Industry

Our Product Introduction

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Basic Information

- Minimum Order Quantity: 1PC
- Price: USD 10000-20000 PC
- Stock: 1PC
- Shipping Method: LCL, AIR, FCL, Express
- Payment Terms: T/T, Western Union

Product Specification

- Model: KF300
- Specification: 200*800*600mm
- Name: CEMS Monitoring Equipment
- Highlight: **Automatic Continuous Emission Monitoring System**
  , **LCD Display CEMS Emissions Monitoring**,
 **Automatic Emission Monitoring System**

More Images

KF300 Series Online Monitoring and Analysis System for Metallurgical Industry

Product Description

Steel and other metals smelting will produce a large number of gases, and analytical measurement of these gases plays an exceedingly important role in the metallurgical plants' production optimization, energy gas recovery, energy conservation and environmental protection, and security control. Free from the cross interference of background gases, the impact of dust and the contaminated window, and with fast response, the KF300 Series Online Monitoring and Analysis System is the best choice for metallurgical industry process gas analysis.

The KF300 series monitoring and analysis system adopts a slightly positive pressure dust-proof cabinet structure. The system consists of a sampling unit, a pretreatment unit, an analysis unit, a calibration unit and a PLC interlock control central unit. It is a comprehensive dust-proof analysis system.
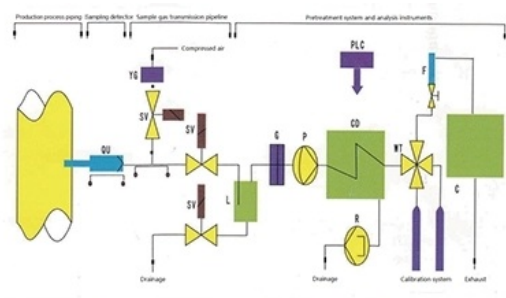
Application	Sampling location and analysis of components		Range	Instrument Selection
Pulverized coal injection	Pulverized coal bag outlet	O2	0 - 10%	KF300-11
		CO	0 – 3000 ppm	KF300-61
	Coal Mill Entrance	O2	0 - 10%	KF300-11
	Coal warehouse	CO	0 – 3000 ppm	KF300-61
Converter gas	BOF heat terminal	CO	0 - 80%	KF300-61
		O2	0 - 2%	KF300-11
	BOF cold terminal	CO	0 - 80%	KF300-61
		O2	0 - 2%	KF300-11
	Front of Gas Tank	O2	0 - 2%	KF300-11
	Back of Gas Tank	O2	0 - 2%	KF300-11

Application	Sampling location and analysis of components		Range	Instrument Selection
Blast furnace gas	Crude/Clear coal gas coal gas	O2	0 - 2%	KF300-11
		CO	0 - 40%	KF300-61
		CO2	0 - 40%	KF300-11
		CH4	0 - 2%	KF300-61
	Stove exhaust gas	O2	0 - 25%	KF300-11
		CO	0 - 3000 ppm	KF300-61
Mixed coal gas	Homeothermy (Calorific value analysis)	CO	0-40%	KF300-61
		H2	0 - 10%	KF300-11
		CH4	0 - 10%	KF300-61

I. System Introduction

KF300B CEMS is composed of sub-systems, including gaseous pollutants (SO2,NOX,O2,HCL,HF, etc.) monitoring sub-system, particulate pollutant (flue dust) monitoring sub-system, flue gas environmental parameters (temperature, pressure, flow rate, humidity) monitoring sub-system and data acquisition and processing sub-system.

The system has such functions as real-time data transmission, report statistics and graphic data analysis, realizing an unattended operation at the worksite. The whole system has a simple structure, strong real-time capability, flexible networking performance, and low operation cost. The system adopts the modular structure, easy to assemble and able to realize data communication with enterprise's internal DCS and environment departments.

II. System Features

II.1. Multi-component analysis instruments

Intelligent: optional air automatic calibration and N2 calibration;

Friendly human-machine interface: LCD display, simple operation, menu operation (for input and output interface selection, calibration, testing), maintenance convenience;

Able to show the values below zero and above the detection range, easy for measure zero drift and detention range drift, good electromagnetic compatibility, strong anti-interference capability and easy installation.

II.2. Pre-treatment System

The system adopts the complete extraction condensation method, with high temperature, high humid flue gas sampled by heating sampling probe and transmitted with heat tracing pipes in the whole process. Once the flue gas enters the analyzing cabin, it goes through condensation dehydration to reduce the loss of water soluble components such as SO2, and thereby improve the measurement accuracy;

Multi-level filtration is adopted to significantly reduce the entrance of moisture and particulates in high temperature and humid into the analyzing system;

The temperature alarm signals of sampling probe temperature controller, heat tracing pipe temperature controller and condenser, as well as the working conditions of the pretreatment system are all transmitted to PLC, and then to the industrial personal computer (IPC) via PLC to record the system work conditions; the system will shut down automatically for any fault to play the protective function.