DOAS Industrial UV Gas Analyzer No O2 Safety Monitoring With Spectrum Analysis

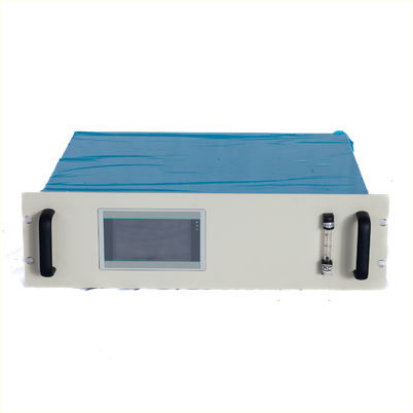
Our Product Introduction

Basic Information

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

Product Specification

- Model: KF100
- Response Time: Less Than 10s
- Power: 220V AC/50Hz 100W
- Protection Grade: IP42
- Sample Gas Input And Output Interface: ø 6 Tube Fittings
- Specification: 19"x3Ux320mm
- Transport Package: Carton
- Highlight: **Industrial UV Gas Analyzer**, **Safety Monitoring UV Gas Analyzer**, **Spectrum Flue Gas Analysis**



More Images

Product Description

Industrial Safety So2 No O2 Monitoring Doas Technology Spectrum Analysis UV Flue Gas Analyzer Control

Product Description

The analyzer based on UV absorption spectroscopy and chemometric algorithms to measure **SO2, NOx, O2, NH3, Cl2, O3, H2S and other gases concentration**, with high accuracy, high reliability, fast response time, wide application and other characteristics, the indicators have reached or exceeded similar products, it can be widely used in environmental online monitoring, industrial control, security monitoring and other occasions.

Key Features

Full spectrum measurement and DOAS (Differential Optical Absorption Spectroscopy) algorithm, excelling in accuracy, repeatability and anti-interference with moisture, dust.
Modular design and no moving parts, higher reliability and easier maintenance. Pulse Xenon Lamp used as light source with over 10-year lifetime.
The adoption of diode array sensor enables instant spectrum acquisition and rapid response

Features and Benefits

1. Analyzer uses the following optical technology platform to get the UV absorption spectrum, the technology platform consists of light source, gas chamber, fiber optics and spectroscopy (including the diaphragm, holographic gratings, linear array detector) and other optical components.

2. UV-visible light emitted by the optical window into the gas chamber, is absorbed by the sample gas flowing through the measured gas chamber, carrying the tested sample gas absorbs light through the lens after gathering information coupled into optical fiber through the optical fiber transmission into the spectrometer splitting, sampling, to obtain the absorption spectrum of the gas.

3. Use DOAS technology spectrum analysis, can analyze the concentration of the gas in the relevant component.

Measuring principle

1) The light source emits ultraviolet beam which transfers to gas cell through optical fiber.
2) After absorption by measuring gas, the light beam transfers through optical fiber to spectrometer.
3) Being dispersed through the grating, dispersed spectral optical signals are converted into electric signal by the CCD array sensor. By DOAS the continuous absorption spectrum of obtained measuring gas is thereafter used to get a plurality of kinds of gases(such as SO2 NO) at the same time.

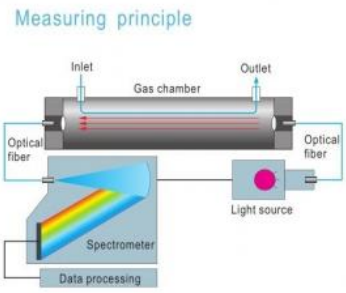


Fig.1.1: Flow chart of UV analysis

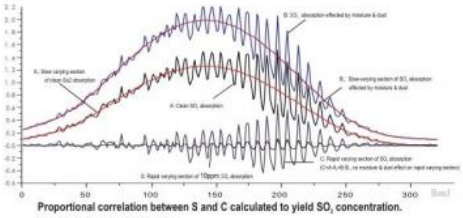


Fig.1.2: DOAS algorithm principle

- The light source emits ultraviolet beam which transfers to gas cell through optical fiber.
- After absorption by measuring gas, the light beam transfers through optical fiber to spectrometer.
- Being dispersed through the grating, and converted into electric signal by the array sensor, a continuous absorption spectrum of measuring gas is thereafter obtained.

Technical Specification

SO_2, NOx Analyzer	
Technical Principle	UV-DOAS
Installation type	Hot-wet Extractive
Measurement Range	0~200ppm, 0~1000ppm, 0~3000ppm
Zero Drift	≤ ±2%F.S.
Span Drift	≤ ±2%F.S.
Accuracy	≤ ±1%
Response Time(T90)	≤ 60s
Linearity	≤ ±1%F.S.
O_2 Analyzer	
Technical Principle	Zirconia/Electrochemical
Measurement Range	0~25%
Response Time(T90)	≤ 60s
Linearity	≤ ±2%F.S.
CO, CO_2 Analyzer	
Technical Principle	NDIR
Installation type	Extractive
CO Measurement Range	0~1000 ppm
CO_2 Measurement Range	0~20%
Zero Drift	≤ ±2%F.S.
Span Drift	≤ ±2%F.S.
Accuracy	≤ ±1%
Response Time(T90)	≤ 60s
Linearity	≤ ±2%F.S.

+86 25 8719 3262 manager@njklsk.cn multi-gasdetection.com

Bldg 12, 2 Qingshuiting West Road, Nanjing, Jiangsu, China, 211102