



KF100 UV Continuous Emission Monitoring System For Industry SO2 NO NO2 O2

Our Product Introduction

Basic Information

- Minimum Order Quantity: 1PC
- Price: \$10,000.00 - \$20,000.00/sets
- Stock: 1PC
- Description: UV Hot-Wet Online Monitoring Gas Analyzer



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Product Specification

- Model NO.: KF100
- Power: 220VAC/50Hz 100W
- Protection Grade: IP42
- Sample Gas Input And Output Interface: ø 6 Tube Fittings
- Port: Shanghai
- Resonse Time(T90): Less Than 10s
- Origin: Nanjing, China
- Highlight: SO2 Continuous Emission Monitoring System, Industry Continuous Emission Monitoring System, NO2 Continuous Emission Monitoring System



More Images



Product Description

Online CEMS 5 gases (Nox, Sox, CO2, Co, O2) UV Gas Analyzer



The analyzer based on UV absorption spectroscopy and chemometric algorithms to measure **SO₂, NO_x, 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, and converted into electric signal by the array sensor, a continuous absorption spectrum of measuring gas is thereafter obtained.

>>>Technology Comparison

Item	UV Hot-Wet Method	NDIR
Spectral Range	Complete and continuous absorption spectra obtained through holographic grating and diode array detection	Non Dispersive, characteristic absorption spectra obtained through band-pass filter
Linear Response	High wavelength resolution secures linear response	band-pass filtration compromises linear response
SO ₂ Loss	Hot-wet prohibits SO ₂ dissolution	Condensation inevitably causes SO ₂ loss
Sampling System	Heat tracing. Requests only dust filtration, simple and no corrosive	Cold-dry. Requests dust filtration, condensation, water removal and corrosion proof
Zero Calibration Period	Long (DOAS algorithm)	Short
Anti-Interference	The combination of complete & continuous absorption spectra, high wavelength resolution, DAOS algorithm erases interference from dust, moisture and background gases	Vulnerable to moisture interference
Gas Cell	Connected by optical fiber, easy to replace and low maintenance cost	Complex to replace and maintenance
Maintenance		
Reliability	No moving parts	Moving parts existed

>>>Technical Specifications

SO₂, NO_x 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.

O₂ Analyzer

Technical Principle	Zirconia/Electrochemical
Measurement Range	0~25%
Response Time(T90)	≤ 60s
Linearity	≤ ±2%F.S.

CO, CO₂ 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.

Technical Data for UV gas analyzer

Project	Indicators
SO ₂ Detection range	Min:0-50ppm,Max:0-100%,
NO Detection range	Min:0-50ppm,Max:0-100%,
O ₂ Detection range	0-25%, Electrochemical or zirconia
Linearity error	≤±1%F.S.
Repeatability	≤1%
Zero drift	≤±1%F.S./ week
Span drift	≤±1%F.S./week
Ambient temperature	5°C~45°C
Response time(T90)	<60s
Size	19" *3U*320mm
Analog interface	3-way 4-20mA output,2-way 4-20mA output
Data interface	4-way switch input; 8-way relay output

Communication Interface	1-way RS-232, 1-way RS-485 (Supports Mod-bus protocol)
Power	220VAC/50Hz 100W
Protection grade	IP42
Sample gas input and output interface	Ø6 Tube Fittings

>>> OEM

Customize products are also available, pls feel free to contact me for more details.

>>> Our Services

1. The inquiry and question will be replied within 12 hours
2. High quality with competitive price
3. Good after sales service
4. Accept OEM
5. One of the most professional safety equipment manufacturer with a very good and trained team

>>> FAQ

Q: Can I order one piece for sample to test the quality?

A: Yes, We recommend to check the sample before place an qty order.

Q: May I have your catalogue and price list for trial order in MOQ quantity?

A: All our products were shown on -line, please have a detailed looking and choose the interested models in our site. Or you can send email to us.

Q: If I order big quantity, what's the good price?

A: Please send the details enquiry to us, such as the Item Number, Quantity for each item, Quality request, Logo, Payment Terms, Transport method, Discharge place etc. We will make the accurate quotation to you as soon as possible.

>>> COMPANY VIEW

» About Us



COMPANY APPEARANCE

THE OFFICE MEETING



WORKSHOP INSTRUMENT

- Nanjing Kelisaike Safety Equipment Co., Ltd. founded in 2004, Nanjing Kelisaike has three subsidiaries in Beijing, Xi'an and Xinjiang province, and over 30 domestic sales service centers.
- Standard products include the K60 series portable single gas detectors, K60-IV series multi gas detectors, K800 series fixed gas transmitters, K500 series wall-mounted gas detectors, K1000 series gas detector control panel units, KL99 series air breathing apparatuses, etc.
- Nanjing Kelisaike is also a factory with rich experience in OEM service, providing professional design and manufacturing of customized products.

Nanjing KELISAIKE company is one of the largest safety equipment manufacturers, possessing the most complete production range and specifications in the safety equipment industry of mainland China. Nanjing KELISAIKE was founded in 2004, including three subsidiaries in Beijing, Xi'an and Xinjiang, and more than 30 domestic sales service centers, with a total registered capital of 5.16 million Yuan. We are the leader enterprise of the science and technology, persisting in creating core competencies by the core technology. In the company, there is one professional and technical talent team who masters core technology, including more than 10 senior technicians and masters. Standard products and services cover the portable gas detector, fixed gas transmitter, wall-mounted gas detector, gas detector control unit, air breathing apparatus etc. Also Nanjing KELISAIKE is an experienced factory for OEM service, providing professional design and construction of

the customize products. The products are widely used in fields of petroleum, chemical, gas transmission and distribution, warehousing, municipal gas, fire fighting, environmental protection, metallurgy, pharmacy, energy and power industry.



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