



## KF100 Series Flue Gas Ultraviolet Analyzer for Industry SO2 NO NO2 O2 NH3 CL2 O3 H2S

### Our Product Introduction

for more products please visit us on [multi-gasdetection.com](http://multi-gasdetection.com)

#### Basic Information

- Minimum Order Quantity: 1PC
- Price: \$10,000.00 - \$20,000.00/sets
- Stock: 1PC
- Description: KF100 UV online environmental monitoring, industrial control, security monitoring



#### Product Specification

- Model NO.: KF100
- Sample Gas Input And Output Interface: ø 6 Tube Fittings
- Size: 19"\*3U\*320mm
- Resonse Time(T90): Less Than 10s
- Ambient Temperature: 5 -45
- Power: 220VAC/50Hz 100W
- Analog Interface: 3-way 4-20mA Switch Input, 2-way 4-20mA Output
- Data Interface: 4-way Switch Input, 8-way Relay Output
- Communication Interface: 1-way RS-232, 1-way RS485(Supports Modbus Protocol)
- Protection Grade: IP42
- Highlight: Flue gas ultraviolet analyzer for SO2 NO NO2, Industrial UV gas analyzer for emissions, Ultra-low emissions monitoring system with warranty



#### More Images



## Product Description



The KF100 Plus Gas Ultraviolet Analyzer, based on **UV** absorption spectroscopy technology and chemometric algorithms, can be used to measure the concentration of **SO<sub>2</sub>, NO<sub>x</sub>, O<sub>2</sub>, NH<sub>3</sub>, Cl<sub>2</sub>, O<sub>3</sub>, H<sub>2</sub>S** and other gases. With high accuracy, high reliability, fast response, and wide applicability, it can be widely used in online environmental monitoring, industrial control, security monitoring and other occasions. The performance indicators of the KF100 series have reached or exceeded those of other domestic and foreign competing products.

### >>>Technical Features

The analyzer gets the UV absorption spectrum from the following optical technology platform that consists of a light source, a gas chamber, fibre optics, a spectrometer(including a diaphragm, holographic gratings, and a linear array detector) and other optical components.

The UV-visible light emitted from the light source enters into the gas chamber through the optical windows, where it is absorbed by the sample gas flowing through the gas chamber. Then the light carrying the absorbing information of the tested sample gas is converged by a lens and coupled into the optical fibre. After the light is transmitted into the spectrometer through the optical fibre for light splitting and sampling, the absorption spectrum of the gas can be obtained.

By using the DOAS technology to analyze the spectrum, the concentration of relevant contents in the gas can be analyzed.

### >>>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 <sub>2</sub> Loss	Hot-wet prohibits SO <sub>2</sub> dissolution	Condensation inevitably causes SO <sub>2</sub> 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 Maintenance	Connected by optical fiber, easy to replace and low maintenance cost	Complex to replace and maintenance
Reliability	No moving parts	Moving parts existed

### >>>Technical Specifications

#### SO<sub>2</sub>, 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<sub>2</sub> Analyzer

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

#### CO, CO<sub>2</sub> Analyzer

Technical Principle	NDIR
Installation type	Extractive
CO Measurement Range	0~1000 ppm
CO <sub>2</sub> 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
SO2 Detection range	Min:0-50ppm,Max:0-100%,
NO Detection range	Min:0-50ppm,Max:0-100%,
O2 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

### >>>About Us

## » 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.

## » Our Exhibition



## » Our Certificates



We have obtained **CE, ISO** and other international certificates for different market requirements.

## » Product Application Show



- The company's products are widely used in fields of petroleum, chemical, gas transmission and distribution, warehousing, municipal gas supply, fire fighting, environmental protection, metallurgy, pharmacy, energy and power industry.

### >>>Why Choose Us?

1. Mutual benefit :We are a factory.The price is much more competitive than others in the same quality.
2. Professional engineers:With 20+ years history, KELISAIKE has a professional engineering team: 4 engineers who have more than 20 years' experience and over 5 engineer assistants in gas detection line, with Hi-Tech manufacturing equipments, we make more accurate and stable products.
3. Customize : We have strong R&D team, the custom product as your request are available.
4. Free OEM service : (a) Silk-printing your Logo(z100PCS). (b) Design your color box(z500PCS).
5. Mix order: We accept mix order, different model and small quantity order.
6. After service: (a) 1 Year warranty. (b) If there's any inferior-quality products are found, new ones could be sent to replace at free cost in the next order after confirmation.

### >>>Our Service:

1. For all our customers, our products have 1 year warranty, and life-long maintenance.
2. All inquiries will be replied in 24 hours.
3. Providing technical support, professional engineers are specialized in dealing with gas monitoring problems you met.
4. OEM and ODM service are welcome.
5. KELISAIKE plant is located in Nanjing, only 1 hour by high speedtrain from Shanghai. Welcome to visit the factory.
6. All products are well tested and packed before shipment; the certificate of inspection will be provided.

### >>>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.



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