



## Customized SO2 UV DOAS Gas Analyzer Heat Resistant With 50Hz 100W Power

### Our Product Introduction

#### Basic Information

- Place of Origin: Jiangsu, China
- Brand Name: KELISAIKE
- Model Number: KF100
- Minimum Order Quantity: 1PC
- Price: \$3,000.00/sets >=1 sets
- Packaging Details: Wooden box
- Stock: 1PC
- Supply Ability: 1000 Set/Sets per Year



#### Product Specification

- Warranty: 1 Year
- Customized Support: OEM, ODM, OBM
- Communication Interface: 1-way RS-232,1-way RS-485(supports Modbus Protocol)
- Analog Interface: 3-wire 4-20mA Output, 2-wire 4-20mA Output
- Power Supply: 220V AC/50Hz 100W
- Ambient Temperature: 5 ~+45
- Storage Temperature: -40 ~+80
- Protection Grade: IP42
- Repeatability: ≤1%
- SO2 Detection Range: Min:0-20ppm,Max:0-100%
- NO Detection Range: Min:0-20ppm,Max:0-100%
- O2 Detection Range: 0-25%,Electrochemical Or Zirconia
- Port: FOB Nanjing / FOB Shanghai



#### More Images



## Product Description

### Flue Gas Analyzer SO2 Gas Concentration Analyzer

#### Product Description



The KF100 Flue 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

- 1) The analyzer gets the UV absorption spectrum from the following optical technology platform that consists of a light source, a gas chamber, fiber optics, a spectrometer(including a diaphragm, holographic gratings, and a linear array )
- 2) The UV-visible light emitted from the light source enters into the gas chamber through the optical window, where it is absorbed by the sample gas flowing through the gas chamber. Then the light carrying the absorption information of the tested samples 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.
- 3) By using the DOAS technology to analyze the spectrum, the concentration of relevant contents in the gas can be analyzed.

#### >> 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 <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-Interface	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
Reliability	No moving parts	Moving parts existed

#### >> Technical Specifications

SO <sub>2</sub> /NO <sub>x</sub> Analyzer	
Technical Principle	UV-DOAS
Installation type	Hot-wet Extractive
Measurement Range	0-200ppm, 0-1000ppm, 0-3000ppm

Zero Drift	$\leq \pm 2\%$ F.S.
Span Drift	$\leq \pm 2\%$ F.S.
Accuracy	$\leq \pm 1\%$
Response Time(T90)	$\leq 60\text{s}$
Linearity	$\leq \pm 1\%$ F.S.
<b>O<sub>2</sub> Analyzer</b>	
Technical Principle	Zirconia/Electrochemical
Measurement Range	0-25%
Response Time(T90)	$\leq 60\text{s}$
Linearity	$\leq \pm 2\%$ F.S.
<b>CO, CO<sub>2</sub> Analyzer</b>	
Technical Principle	NDIR
Installation type	Extractive
CO Measurement Range	0-1000 ppm
CO <sub>2</sub> Measurement Range	0-20%
Zero Drift	$\leq \pm 2\%$ F.S.
Span Drift	$\leq \pm 2\%$ F.S.
Accuracy	$\leq \pm 1\%$
Response Time(T90)	$\leq 60\text{s}$
Linearity	$\leq \pm 2\%$ F.S.

#### >>> Technical Data for UV Gas Analyzer

Project	Indicators
SO <sub>2</sub> Detection Range	Min:0-50 ppm, Max:0-100%
NO Detection Range	Min:0-50ppm,Max:0-100%
O <sub>2</sub> Detection Range	0-25%, Electrochemical or zirconia
Linearity error	$\leq \pm 1\%$ F.S.
Repeatability	$\leq \pm 1\%$
Zero drift	$\leq \pm 1\%$ F.S./week
Span drift	$\leq \pm 1\%$ 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

#### Product Catalogue









### Our Services

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

### Company Information

**Nanjing KELISAIKE company** is one of the largest safety equipment manufactures, possesing 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 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.

## » 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.

### FAQ

#### 1. How about the Delivery time?

Samples will be prepared within 5 Days after 100% T/T in advance payment. QTY order will be delivered in 20days.

#### 2. What kind of payments does KELISAIKE support?

T/T, L/C, Western Union, Cash are accepted.

#### 3. What's the MOQ?

Generally speaking, the MOQ is 10PCS, but we also can provide you samples for quality inspection.

#### 4. Do you charge for the samples?

According to our company policy, we just charge the samples based on EXW price, and we will return the samples fee during the next qty order.

#### 5. Can you produce according to customers' design?

Sure, we are professional manufacturer, OEM is welcome

### Contact us



Hailie



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