



## DOAS 220V AC Uv Photometric Ozone Analyzer For Monitoring Ozone Levels

### Our Product Introduction

#### Basic Information

- Minimum Order Quantity: 1PC
- Price: \$7,999.00 - \$9,999.00/sets
- Packaging Details: carton
- Stock: 1PC
- Supply Ability: 1000 Set/Sets per Year



#### Product Specification

- Communication Interface: 1-way RS-232, 1-way RS-485(Support 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
- Port: Nanjing
- Highlight: 220V Uv Photometric Ozone Analyzer, AC Uv Photometric Ozone Analyzer, 220V UV Gas Analyzer



#### More Images



### Product Description

## DOAS technology UV absorption ozone online gas analyzer



The analyzer based on UV absorption spectroscopy and chemometric algorithms to measure 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 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. The analyzer based on UV absorption spectroscopy and chemometric algorithms to measure 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 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

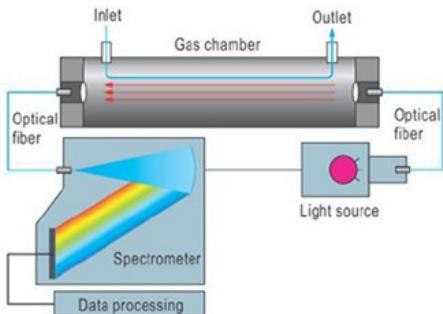


Fig.1.1: Flow chart of UV analysis

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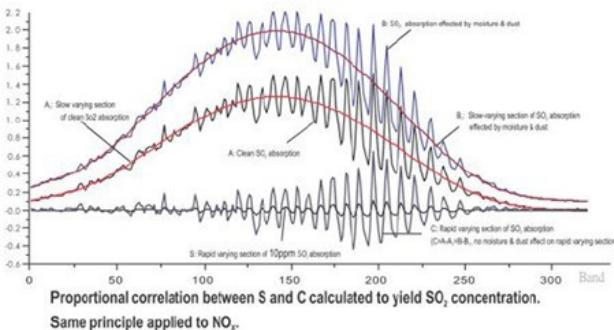


Fig.1.2: DOAS algorithm principle

- 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-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

#### 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	≤ ±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
SO <sub>2</sub> Detection range	Min:0-50ppm,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	≤±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

### Company Information

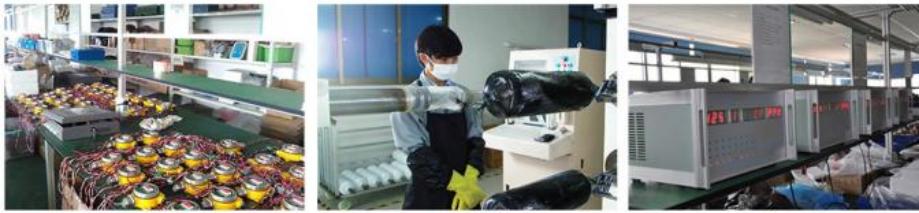
## ABOUT US

Nanjing KELISAIKE company is one of the largest safety equipment manufactures, 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 total registered capital CNY 10.16 million. Standard products and services cover the portable gas detector, fixed gas transmitter, wall-mounted gas detector, gas detector control unit, air breathing apparatus, online gas emission monitoring systems etc.



### 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 manufacture with a very good and trained team



## THE FACTORY

Nanjing KELISAIKE has passed IS9001 International Quality System Certification, which ensures all products' excellent performance and competitive prices.



## 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

## THE EXHIBITION

We often participate in exhibitions at home and abroad, harvest a lot of friends, and have been confirmed by many partners.



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