



IP42 KF100 UV Continuous Emission Monitoring System 50Hz 100W For 5 Gases

Our Product Introduction

Basic Information

- Brand Name: KELISAIKE
- Model Number: KF100
- Minimum Order Quantity: 1PC
- Price: \$10,000.00 - \$20,000.00/sets
- Packaging Details: Wood carton
- Stock: 1PC
- Supply Ability: 10 Set/Sets per Month

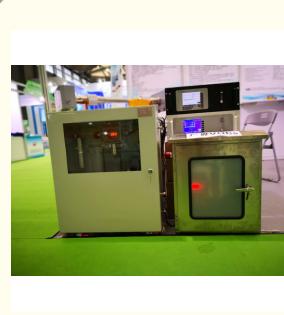


Product Specification

- Response Time(T90): Less Than 10s
- Power: 220VAC/50Hz 100W
- Protection Grade: IP42
- Sample Gas Input And Output Interface: Ø 6 Tube Fittings
- Port: Shanghai
- Highlight: 100W Continuous Emission Monitoring System, UV Continuous Emission Monitoring System, 5 Gases CEMS Environmental Monitoring



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 | No moving parts | Moving parts existed |
| Reliability | | |

>>> 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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