

## Electronic TDLAS Laser Gas Analyzer Explosion Proof For O<sub>2</sub> Concentration Analysis

Our Product Introduction

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### Basic Information

- Place of Origin: Jiangsu, China
- Brand Name: Kelisaik
- Model Number: KF-200
- Minimum Order Quantity: 1PC
- Price: \$5,000.00 - \$70,000.00/sets
- Packaging Details: carton for TDLAS theory laser gas analyzer for O<sub>2</sub> analysis
- Stock: 1PC
- Supply Ability: 500 Set/Sets per Month

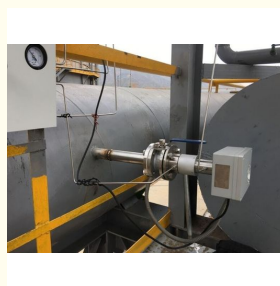
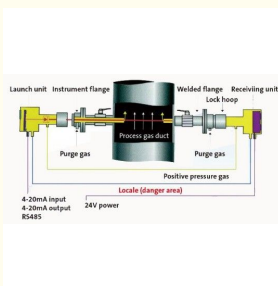


### Product Specification

- Power: Electronic
- Use: Gas Testing And Analysis System
- Measurement Principle: TDLAS
- Analog Output: 2-wire 4-20 MA Signal Input (Isolated, Maximum Load 750 Ω)
- Power Supply: 24 V DC(18~36 V DC)
- Ambient Temperature: -30 ~+60
- Storage Temperature: -40 ~+80
- Installation Method: In Situ Installation
- Explosion-proof: Exd IICt6 Gb
- EMC: IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4,
- Port: Nanjing
- Highlight: **TDLAS Laser Gas Analyzer,  
Electronic Laser Gas Analyzer,  
Explosion Proof TDL Gas Analyzer**



### More Images



## Product Description

### TDLAS Laser Gas Analyzer for O<sub>2</sub> Concentration Analysis

The KF200 series laser gas analyzer is developed aiming at industrial on-line analyzing and online environmental monitoring. Based on the semiconductor laser absorption spectroscopy (DLAS) technology, it is developed with features of an integrated design and high level of integration.

There are various types of the KF200 series laser gas analyzer, including in-situ probing type, by-pass type, multi-channel and disc mounted type, etc.

Gases like O<sub>2</sub>, CO, NH<sub>3</sub>, CO<sub>2</sub>, CH<sub>4</sub>, H<sub>2</sub>O, HC, HF, etc., can all be analyzed. The concentration analyzing of target gases includes the macro-analysis and micro-analysis.

#### Features and Benefits

In-situ, no gas sampling

No cross interference

Fast response less than 7s

Diverse optical length (0.5-20m)

Reliable in all harsh conditions: high temperature & pressure, dust density, moisture and corrosion

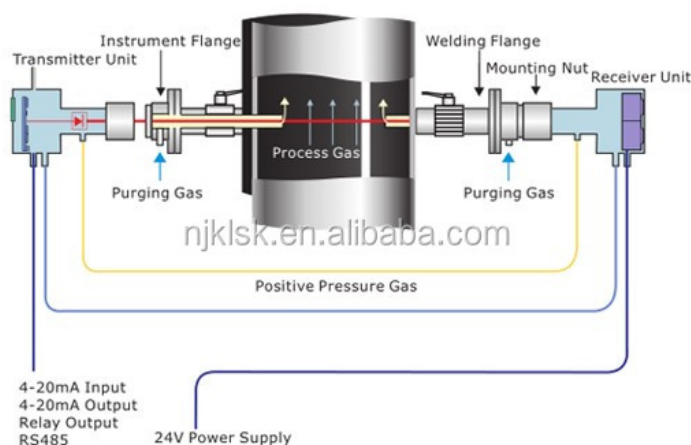
Online calibration, no zero drift

Thousands of tailor-made solutions for various applications

#### >>> Technical Specifications

Measurement Principle	Tunable Laser Absorption Spectroscopy(TDLAS)	
Technical Data	Linearity	$\leq \pm 1\%$ F.S.
	Span drift	$\leq \pm 1\%$ F.S./6 months
	Repeatability	$\leq 1\%$
	calibration period	$\leq 1$ time/6 month
	Explosion-proof Grade	Exd IIC T6 Gb
Response Time	Protection levels	IP66
	Warm-up time	$\leq 15$ min
	Response time(T90)	$\leq 8 \sim 10$ s
Interface Signals	Analog outputs	2 outputs 4-20 mA, max signal input(electrically isolated, max. load 750 $\Omega$ )
	Analog inputs	2-way 4-20 mA input (temperature-pressure compensation)
	Communications	RS485/RS232/GPRS
	Relay output	3 outputs relay(24 V DC/1 A)
	Operation temperature	-30 ~+60
Operating Conditions	Storage Temperature	-40 ~+80
	Purge Gas	0.3~0.8 MPa nitrogen gas or instrument air
	Power Supply	200-240 V AC/48-63 Hz, power is base on specific configuration
Installation	Installation Method	Sampling probe is mounted in the flue / pipe, system is installed nearby

#### >>> Structure and Principle



#### >>> Gas Detection Limits

Detection Gas Type	Detection Limit	Detection range
O <sub>2</sub>	0.01%Vol.	(0-1)%Vol., (0-100)%Vol.
CO <sub>2</sub>	10 ppm	(0-1000)ppm, (0-100)%Vol.
H <sub>2</sub> S	20 ppm	(0-2000) ppm, (0-100)%Vol.

HCl	0.1 ppm	(0-50) ppm, (0-100)%Vol.
NH <sub>3</sub>	0.1 ppm	(0-10) ppm, (0-100)%Vol.
C <sub>2</sub> H <sub>2</sub>	0.1ppm	(0-10) ppm, (0-100)%Vol.
CO	10 ppm	(0-1000)ppm, (0-100)%Vol.
H <sub>2</sub> O	0.3 ppm	(0-50)ppm, (0-100)%Vol.
HF	0.02 ppm	(0-5)ppm, (0-10000) ppm
HCN	0.3 ppm	(0-30)ppm, (0-1)%Vol.
CH <sub>4</sub>	0.4 ppm	(0-40)ppm, (0-100)%Vol.
C <sub>2</sub> H <sub>4</sub>	0.6 ppm	(0-60)ppm, (0-100)%Vol.

**Remarks:**

- 1). The test conditions include a 1 m optical path, 1 bar gas pressure, and a 300 K gas temperature.
- 2). Increasing the optical path will proportionally lower the detection limit.





### >>> Application Areas

#### **Refinery & Petrochemical**

FCC Catalyst Regeneration  
 SCR NH<sub>3</sub> Injection  
 Desulfurization Efficiency  
 Explosive Process Gas  
 Sulfur Recovery Flue Gas Measurement Outlet of  
 Process Heaters, Fractionators, Thermal Crackers,  
 Utility Boilers and Incinerators  
 Reactant Ratio Optimization  
 Product Purity  
 HCL, HF Emission

#### **Metallurgy**

Combustion Control for Reheating Furnace, Heat  
 Treatment Furnace, Forging Furnace  
 Converter Gas Recycle  
 Blast Furnace Gas  
 Coke Oven Gas  
 Flue Gas of Sintering, Pelletizing  
 Coal Injection Safety Control  
 Electric Tar Precipitator (ETP) Safety Control  
 CDQ Circulating Gas  
 Gas Tank Safety Control  
 Calorific Value Analysis  
 Sulfur Recovery

#### **Thermal Power**

SCR NH<sub>3</sub> Injection  
 Desulfurization Efficiency  
 Coal Injection Safety Control  
 HCL, HF Emission

### Company Information

**Nanjing KELISAIKE Safety Equipment Co., Ltd.** is one of the largest safety equipment manufacturers in mainland China, possessing the most complete product range and specifications in the safety equipment industry. 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. 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.

As a leading enterprise in technology innovation, Nanjing KELISAIKE is committed to developing core competencies by continuous technology research. The company has a team of professional and technical talents, including more than 10 senior technicians and masters, who master quite many core technologies.

Nanjing KELISAIKE has passed ISO 9001 International Quality System Certification. With the guidance and tools of the standard, Nanjing KELISAIKE cannot only ensure that all the company's products and services consistently meet customer's requirements, but also that the quality of the products and services will be consistently improved.





## Our Services

1. For all our products, we offer a 1 year warranty and life-long maintenance.
2. All inquiries will be replied in 24 hours.
3. We will provide technical support; our engineers will help to solve the problems you met.
4. We can provide OEM and ODM service.
5. Our factory is located in Nanjing city, welcome to visit our factory.
6. All products will be fully checked and well packed before shipment, and qualification certificate will be provided.

## FAQ

Q: How about the Delivery time?

A: Samples will be prepared within 5 days after receiving 100% T/T payment in advance. QTY order will be shipped in 20 days.

Q: What kind of payments does KELISAIKE support?

A: T/T, L/C, Western Union and Cash are all accepted.

Q: What's the MOQ?

A: Normally, the MOQ is 10 PCS, but we also can provide samples for quality inspection.

Q: Do you charge for the samples?

A: Yes, we do. According to our company policy, we only charge the samples based on EXW price, and we will return the sample fee in the next qty order.

Q: Can you produce according to customers' design?

A: Sure, we are a professional manufacturer, and OEM order is welcome.





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