



## Industrial TDLAS Laser Gas Analyzer with Fast Response High Accuracy and Explosion-Proof Design

### Our Product Introduction

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#### Basic Information

- Minimum Order Quantity: 1PC
- Stock: 1PC

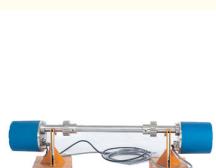
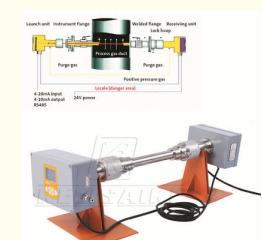


#### Product Specification

- Model NO.: KF200
- Gas: Customized
- Type: Laser Gas Analyzer
- Measurement Principle: Semiconductor Laser Absorption Spectroscopy
- Power Supply: 24VDC(18~36VDC)/220V AC
- Explosion-Proof: Exp Xmd IIC T5
- EMC: IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4
- Transport Package: Carton
- Trademark: KELISAIKE Or OEM
- Origin: Nanjing, China
- HS Code: 9027100090
- Supply Ability: 300PCS/Month
- After-sales Service: Lifelong Maintenance



#### More Images



### Our Product

#### Product Description

##### Industrial Online TDLAS Laser Gas Analyzer

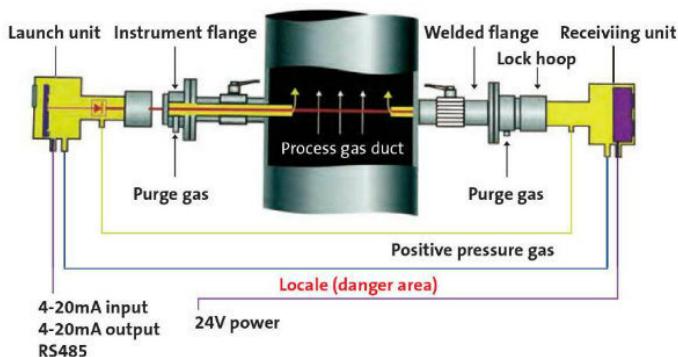
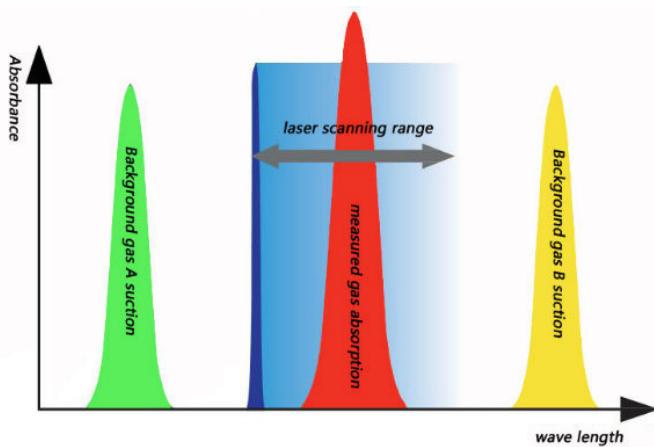
In-situ DLAS Laser Gas Analyzer for Environment Gas Control Analysis and Gas Leak Monitoring

## Introduction

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The KF series Laser Gas Analyzer is developed for industrial online analysis and environmental online monitoring applications. Multiple configurations are available including in-situ probe, bypass type, multi-channel, and disc-mounted types. The analyzer detects various gas types including O<sub>2</sub>, CO, NH<sub>3</sub>, CO<sub>2</sub>, CH<sub>4</sub>, H<sub>2</sub>O, HC, HF and others, with capabilities for both macro-analysis and micro-analysis concentration measurements.



### Key Features

- In-situ probe mounting for real-time monitoring
- Explosion-proof design with building block construction

Field-replaceable laser module  
Magnetic pen control for convenient operation

### Technical Features

TDLAS technology for in-situ online gas analysis  
Double-proof probe design without positive pressure purge  
No additional data processing unit required  
Compact structure with high reliability  
High-power lasers without fiber coupling  
Resistant to harsh working conditions including excessive dust  
Patented spot light path adjustment for easy installation

### Technical Specifications

<b>Measurement Principle</b>	Tunable Laser Absorption Spectroscopy (TDLAS)
<b>Technical Data</b>	<b>Linearity error:</b> $\leq \pm 1\%$ F.S. <b>Span drift:</b> $\leq \pm 1\%$ F.S./6 months <b>Repeatability:</b> $\leq 1\%$ F.S. <b>Calibration period:</b> $\leq 1$ time/6 month
<b>Explosion-proof Grade</b>	Exp xmd IIC T5
<b>Protection levels</b>	IP65
<b>Response Time</b>	<b>Warming-up time:</b> $\leq 15$ min <b>Response time (T90):</b> $\leq 1$ s
<b>Interface Signals</b>	<b>Analog outputs:</b> 2-wire 4-20mA signal output (Isolated, maximum load 750 $\Omega$ ) <b>Analog inputs:</b> 2-way 4-20mA input (temperature-pressure compensation) <b>Relay output:</b> 3-wire relay (24V, 1A) <b>Digital Communication:</b> RS485/RS232/GPRS/Bluetooth
<b>Laser Safety Standard</b>	GB 7247.1-2001 (idt IEC 60825-1:1993)
<b>Operating Conditions</b>	<b>Storage temperature:</b> -40°C to 80°C <b>Ambient temperature:</b> -30°C to 60°C <b>EMC:</b> IEC 6100-4-2, IEC 6100-4-3, IEC 6100-4-4, IEC 6100-4-5, IEC 6100-4-11 <b>Gas jet:</b> 0.3-0.8MPa Industrial nitrogen inlet and purification instrument gases <b>Power:</b> DC 24V (DC 18-36V), AC 220V (based on specific configuration) <b>Consumption:</b> <20W
<b>Installation Method</b>	Sampling probe mounted in flue/pipe, system installed nearby

### Gas Detection Limits

<b>Detection Gas Type</b>	<b>Detection Limit</b>	<b>Detection Range</b>
O <sub>2</sub>	0.01% Vol	(0-1%) Vol., (0-100)% Vol.
CO <sub>2</sub>	10ppm	(0-1000)ppm, (0-100)% Vol.
H <sub>2</sub> S	20ppm	(0-2000)ppm, (0-100)% Vol.
HCl	0.1ppm	(0-50)ppm, (0-100)% Vol.
NH <sub>3</sub>	0.1ppm	(0-10)ppm, (0-100)% Vol.
C <sub>2</sub> H <sub>2</sub>	0.1ppm	(0-10)ppm, (0-100)% Vol.
CO <sub>2</sub>	10ppm	(0-1000)ppm, (0-100)% Vol.
H <sub>2</sub> O	0.3ppm	(0-50)ppm, (0-100)% Vol.
HF	0.02ppm	(0-5)ppm, (0-10000)ppm
HCN	0.3ppm	(0-30)ppm, (0-1)% Vol.
CH <sub>4</sub>	0.4ppm	(0-40)ppm, (0-100)% Vol.
C <sub>2</sub> H <sub>4</sub>	0.6ppm	(0-60)ppm, (0-100)% Vol.

**Remark:** Test conditions: 1m optical path, gas pressure 1 bar, gas temperature 300K. Detection limit can be proportionally lowered by increasing optical path length.

### Why Choose KELISAIKE?

**Mutual benefit:** Industry and trade integrated enterprise offering competitive pricing  
**Professional engineers:** Team with over 10 years experience in gas detection  
**Customization:** Strong R&D team for custom product development  
**Free OEM service:** Logo printing ( $\geq 100$ PCS) and custom packaging ( $\geq 500$ PCS)  
**Mix orders:** Accept mixed models and small quantity orders  
**After-sales service:** 1-year warranty and quality replacement guarantee

### Frequently Asked Questions

#### Are you a manufacturer?

Yes, we are professional safety equipment manufacturers with over 12 years of experience in production and marketing.

**Do you provide customization?**

Yes, including gas type, detection range, alarm points, and other specifications. Contact us for detailed requirements.

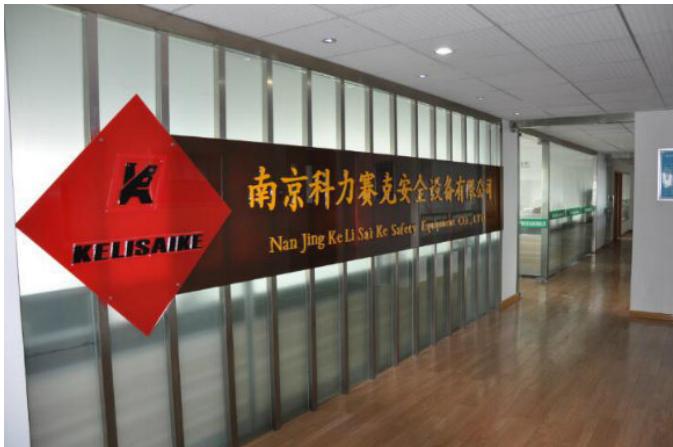
**Can I order one piece for sample testing?**

Yes, we recommend checking samples before placing bulk orders.

**What pricing is available for large quantity orders?**

Please provide detailed requirements including item numbers, quantities, quality specifications, logo needs, payment terms, and shipping details for accurate quotation.

**Company Overview**



Nanjing KELISAIKE Safety Equipment Co., Ltd. is one of the largest safety equipment manufacturers in mainland China, offering the most complete product range in the safety equipment industry. Founded in 2004, the company operates three subsidiaries in Beijing, Xi'an and Xinjiang province, with over 30 domestic sales service centers.

Standard products include 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, and KL99 series air breathing apparatuses. The company also provides professional OEM services with extensive experience in custom product design and manufacturing.

Applications span petroleum, chemical, gas transmission, warehousing, municipal gas supply, fire fighting, environmental protection, metallurgy, pharmaceuticals, and energy industries. As a technology innovation leader, KELISAIKE maintains a team of professional technical talents including over 10 senior technicians and masters who master core technologies.

The company is ISO 9001 certified, ensuring consistent product quality and continuous improvement. KELISAIKE operates with a people-oriented, technology-driven philosophy and quality-first, integrity-based principles.



**Nanjing Kelisaike Safety Equipment Co., Ltd.**



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