Industrial TDLAS Laser Gas Analyzer with Fast Response, High Accuracy & Explosion-Proof Design

Our Product Introduction

for more products please visit us on multi-gasdetection.com

Basic Information

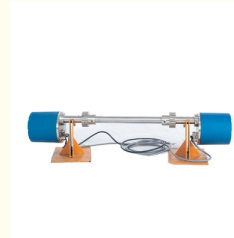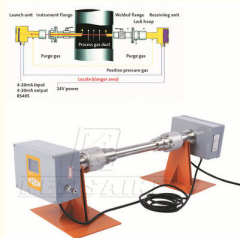- Minimum Order Quantity: 1PC
- Stock: 1PC

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
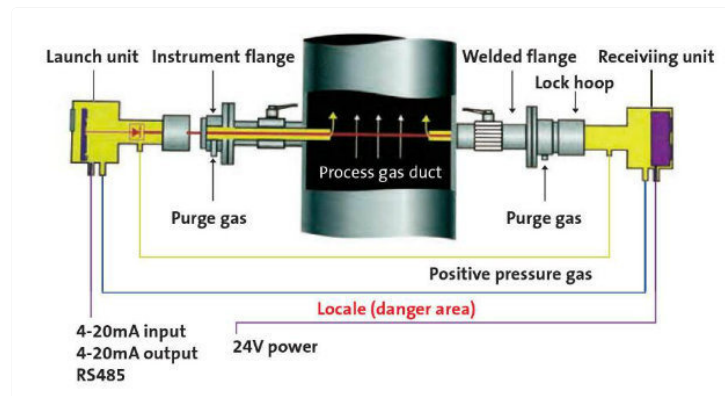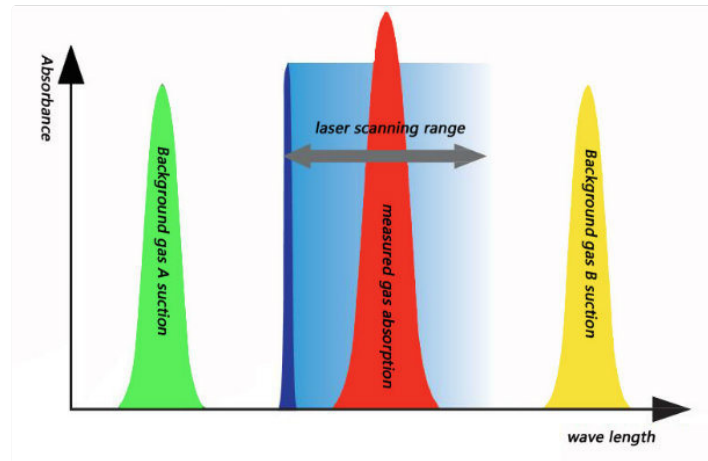- Warranty: 1 Year

More Images

Product Description

Industrial Online TDLAS Laser Gas Analyzer

In-situ DLAS Laser Gas Analyzer for environmental gas control analysis and gas leak monitoring with fast response and high accuracy.

Our Produc

The KF series Laser Gas Analyzer is developed for industrial online analysis and environmental online monitoring. Available in multiple configurations including in-situ probe, by-pass type, multi-channel, and disc-mounted types. Capable of analyzing gases including O_2, CO, NH_3, CO_2, CH_4, H_2O, HC, HF and others, with both macro and micro concentration analysis capabilities.

Key Features

In-situ probe mounting for real-time monitoring

Explosion-proof design with building block construction

Field replacement of 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

Simple compact structure with high reliability

High-power lasers without fiber coupling

Anti-harsh working conditions including excessive dust

Patented spot light path adjustment for easy installation

Technical Specifications

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

Gas Detection Limits

Detection Gas Type	Detection Limit	Detection Range
O_2	0.01% Vol	(0-1) Vol., (0-100)% Vol.
CO_2	10ppm	(0-1000)ppm, (0-100)% Vol.
H_2S	20ppm	(0-2000)ppm, (0-100)% Vol.
HCl	0.1ppm	(0-50)ppm, (0-100)% Vol.
NH_3	0.1ppm	(0-10)ppm, (0-100)% Vol.
C_2H_2	0.1ppm	(0-10)ppm, (0-100)% Vol.
CO_2	10ppm	(0-1000)ppm, (0-100)% Vol.
H_2O	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_4	0.4ppm	(0-40)ppm, (0-100)% Vol.
C_2H_4	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.

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 silk-printing (≥100PCS) and custom packaging (≥500PCS)

Mix Orders: Accept mixed models and small quantity orders

After 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, and delivery terms 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 and 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 for customized products.

Products are widely used in petroleum, chemical, gas transmission, warehousing, municipal gas supply, fire fighting, environmental protection, metallurgy, pharmacy, and energy industries.

As a technology innovation leader, KELISAIKE maintains a team of professional technicians including senior engineers and masters degree holders. The company has passed ISO 9001 International Quality System Certification.

KELISAIKE Faith: People-oriented and technology-driven

KELISAIKE Principle: Quality first, integrity-based