

40xv Oxygen Gas Sensor O2 Sensor for Gas Detector Based on ELECTROCHEMICAL Principle

Our Product Introduction

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Basic Information

- Place of Origin: Jiangsu, China
- Brand Name: ALPHASENSE
- Certification: ATEX, UL
- Minimum Order Quantity: 1PC
- Price: \$32.00/sets >=1 sets
- Packaging Details: Standard exporting package-Carton box for K60-IV Portable handheld multi gas detector 0-200ppm h2s gas detector
- Stock: 1PC
- Supply Ability: 1000 Set/Sets per Year



Product Specification

- Warranty: 1 Year
- Type: Gas Sensor
- Customized Support: OEM
- Gas Type: O2 0-25%VOL
- Principle: ELECTROCHEMICAL
- CE Standard: EN/IEC 60079-0 Impact Test
- HS Code: 9027100090
- Packaging Details: Carton
- Weight: 0.3g
- Output Signal: 0.10 ± 0.02 MA In Air
- Response Time (T90): <15 Seconds
- Operating Temperature Range: -20°C To +50°C
- Port: FOB Nanjing / FOB Shanghai
- Highlight: o2 portable gas detector, o2 portable gas detector



More Images



Product Description

40xv Oxygen Gas Sensor(O2 Sensor) for Gas Detector

>>> Product description

After the analog signal output by the oxygen electrochemical sensor is amplified by the module, it is sent into the ADC acquisition port of STM32 single-chip microcomputer. After the filtration operation inside the STM32 single-chip microcomputer, the oxygen concentration in the air is calculated and then output from the serial port. The module is compatible with 40XV, Me2-O2, AAY80-390R and other electrochemical probes. Module uses high precision rail-to-rail amplifier AD86XX amplifier circuit, integrated ARM Cortex M0 32-bit CPU, 12-bit ADC sampling, serial port output oxygen concentration, can be calibrated through the serial port output value, baud rate 115200.

Electrochemical gas sensor is based on the principle of electrochemistry, using the measured gas on the sensor working electrode and electrode corresponding REDOX reaction and release charge, through the external circuit to form a current, current size is proportional to the concentration of gas, so as to achieve the quantitative measurement of the target gas.

Applicable

It can be used in automobile, laboratory, coal mine, steel, petrochemical, medical and other measuring environments.

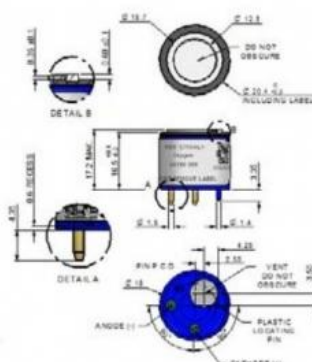
Key Features and Benefits

- False alarm immunity
- Enhanced response time in extreme applications
- Reliably meets stated life
- Superior environmental performance

Technical Specifications

MEASUREMENT	
Technology	Electrochemical
Measurement Range	1-25% vol. O ₂
Maximum Overload	30% vol. O ₂
Output Signal	0.10 ± 0.02 mA in Air
Response Time (T90)*	<15 Seconds
Zero Current (Offset)*	<0.6% vol. O ₂
Linearity	Can be considered linear in many cases. See Operating Principles (OP-02) for further details.
ELECTRICAL	
Recommended Load Resistor	100 Ω
MECHANICAL	
Casing Material	ABS
Weight	<16 g
Orientation Sensitivity	<0.2% vol. O ₂ equivalent
ENVIRONMENTAL	
Operating Temperature Range	-20°C to +50°C (up to 3 months continuous across RH range)
Recommended Storage Temp	0°C to 20°C
Thermal Transient	<23.5% vol. O ₂

Product Dimensions



>>> Product Catalogue



K60-V
K60-A



K500
K200



K800
K800



KL99
KL99



KF200
KF500



K1000
KJ000



COMPANY APPEARANCE

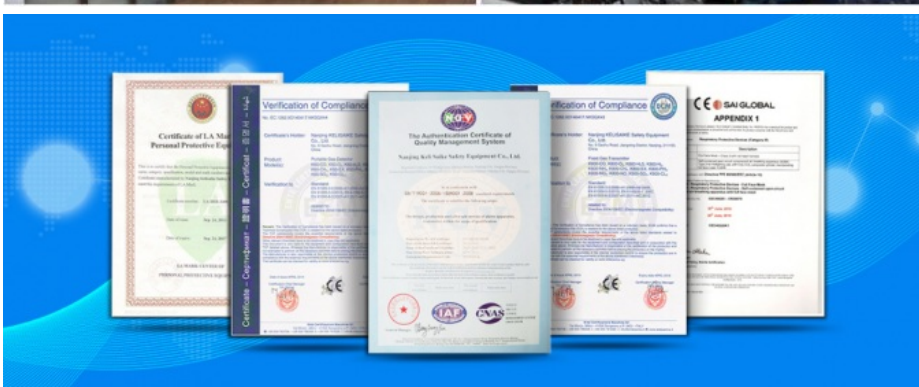
THE OFFICE MEETING



WORKSHOP INSTRUMENT



- Nanjing Kelisaik Safety Equipment Co., Ltd. founded in 2004, Nanjing Kelisaik 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 Kelisaik is also a factory with rich experience in OEM service, providing professional design and manufacturing of customized products.



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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Hailie



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