

## K800 Fixed Gas Detector Certified CE SIL UL and ATEX for Oil & Gas Safety

Our Product Introduction

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### Basic Information

- Minimum Order Quantity: MOQ 1pc
- Price: USD 350
- Stock: 900pcs in stock
- Shipping Method: Express
- Description: K800 Fixed Gas Detector – an advanced and reliable gas detection system designed to safeguard lives, assets, and the env
- Payment Terms: T/T



### Product Specification

- Product Name: Fixed Gas Detector
- Detecting Gas: H2 CO
- Color: Yellow, Customized
- Sensor: Electrochemical Sensor, Catalytic Sensor Optional
- Material: Aluminum, SS316L
- Output Signal: 4-20mA/RS485/HART
- Sampling Method: Diffusion
- Highlight: **ATEX Fixed Gas Detector, SIL Fixed Gas Detector, UL Fixed Gas Detector**



### More Images



## Product Description

### K800 Fixed Gas Detector

the right choice for a variety of demanding industrial applications

The K800 is a high-performance intelligent gas detection system designed to deliver continuous safety monitoring in industrial environments where hazardous gases threaten lives, property, and operations. Engineered to comply with modern safety standards, the K800 integrates advanced sensor technology with robust communication options for seamless connectivity within existing control systems.

Supporting both 3-wire and 4-wire configurations, the detector provides a standard 4–20 mA analog output and offers optional RS485 MODBUS and HART digital communication protocols. This versatility ensures compatibility with a wide range of Distributed Control Systems (DCS), Programmable Logic Controllers (PLC), and SCADA platforms, enabling real-time data sharing and coordinated system management.

Built for fixed installation, the K800 includes built-in high and low gas concentration alarm relays as well as fault relays. It continuously monitors flammable gases, toxic gases, and oxygen levels in potentially explosive or confined areas, providing early warnings to help prevent incidents. With a rugged construction suited for both indoor and outdoor use, and precise detection capabilities, the K800 is an ideal choice for refineries, chemical plants, storage terminals, and manufacturing sites. It safeguards personnel and assets by ensuring reliable protection in hazardous zones.



#### Precision Detection

The K800 features advanced sensor technologies that deliver highly accurate and reliable gas detection. Sensor options include:

**Electrochemical sensors** for precise detection of toxic gases and oxygen levels

**Infrared sensors** resistant to poisoning, ideal for detecting flammable gases in harsh environments

**Catalytic bead sensors** designed to resist contamination, ensuring long-term accuracy for combustible gas detection. These technologies provide consistent performance across diverse industrial applications, reducing false alarms and enhancing safety responses.

#### Wide Detection Capability

With flexible configurations, the K800 can detect:

Flammable gases using catalytic or infrared sensors

Toxic gases with high specificity

Oxygen levels to monitor both enrichment and deficiency hazards

This versatility makes it suitable for industries like oil & gas, chemical processing, wastewater treatment, power generation, and more.

#### Real-Time Monitoring & Alerts

Offering continuous 24/7 gas monitoring, the K800 features integrated alarms that provide immediate visual and audible warnings for gas concentration limits and fault conditions, enabling prompt and proactive safety measures.

#### User-Friendly Interface

Equipped with clear LED status indicators, the K800 displays real-time operational status including faults, warnings, and alarms. This intuitive interface allows users to quickly assess system health, reducing risk and simplifying maintenance.

#### Built for Harsh Environments

Housed in a rugged industrial-grade enclosure, the K800 withstands harsh conditions such as weather, dust, and mechanical

impacts. It is suitable for both indoor and outdoor hazardous area installations.

#### **Effortless Installation & Maintenance**

Built-in mounting bracket ensures fast and secure installation

Removable plug-and-socket terminal blocks simplify wiring and speed up maintenance

Plug-in sensor modules allow quick sensor replacement without special tools or downtime

#### **Cost-Effective Operation**

Designed for efficiency, the K800 reduces total cost of ownership by:

Using a common transmitter platform compatible with multiple sensor types

Requiring minimal training due to its intuitive interface

Lowering spare parts inventory thanks to modular design

Supporting MODBUS multi-drop communication to minimize cabling costs in large-scale deployments

Whether monitoring a single site or managing a large facility, the K800 delivers reliable performance, enhanced safety, and scalable solutions.

## **K800 Fixed Gas Detector**



**UK sensors** (brands CITY, Alphasense, Dynament etc.), **US** (brand Honeywell), **Japanese and German sensors**, ensuring high stability & sensitivity

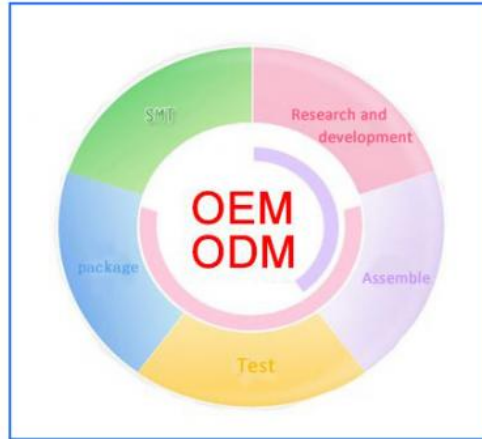
**CE/ATEX approved.** Gas detectors are approved under the ATEX directive.



**Larger & stronger LED screen:** easy for reading; able to work in environments with -4 °F to 122°F (-20°C – +50°C), 0 – 95% RH, non-condensing (anti-splash)



- **High response speed:** Specially designed main board for industrial use; 10+ years professional engineering team for technical solutions
- **OEM/ ODM/ OEM Service:** with over 14 years experience, specializing in gas detectors.



#### Technical Specification:

Type	Explosion proof/ flameproof enclosed transmitter(*d*)	
Gases	Flammable, toxic gases and oxygen, depended in the sensor used	
Measuring range	Customized adjustment, see sensor data sheet	
Sensor Cell:	UK sensors (brand CITY, Alphasense, Dynament etc.), US (brand Honeywell), Japan and Germany sensors	
Display	LCD	
Working condition	Power	24VDC
	Working temperature	-20 ~+50 -40 ~+70 (optional)
	Working humidity	10%RH~95%RH Non-Condensing
	Pressure range	86Kpa~106Kpa
Output signal	4-20mA analog output, RS485 MODBUS output, HART(optional)	
Construction	Junction Box: Aluminium Alloy, (Stainless Steel Option) Detector: Stainless Steel	
Explosion-proof grade	Ex d IIC T6 Gb	
Protection grade	IP66	
Approvals	UL: Class I, Group A,B,C and D SIL3: IEC 61508:2010 CE:EN 61326-1:2013 Ex d IIC T6 Gb Ex tD A21 IP66 T80 CPA	

Building Environment	Specific Area	Gases Present (Detected by K800)
Oil and Gas	Refineries, Exploration drilling rigs Production platforms Onshore oil and gas terminals Storage facilities	General Hydrocarbons H2S CO O2 VOCs Benzene
Chemical Plants	Raw material storage Process Areas Laboratories Pump rows Compressor stations Loading/unloading areas	General Hydrocarbons H2S NH3 O2
Power Stations	Boiler pipework Burners Turbines Coal silos and conveyor belt areas in older coal/oil fired stations Generator rooms	Flammable CH4 H2 O2 CO

Waste Water Treatment Plants	Aeration tanks Digestion chambers Plants sumps H2S scrubbers Pumps	General Hydrocarbons H2S NH3 CO O2
Manufacturing Facilities	Production lines Chemical processing zones	VOCs, NH3 H2
Marine	Engine Rooms Cargo Holds Boiler Rooms Refrigeration Rooms Fuel Storage Areas	General Hydrocarbons H2 CO NH3 VOCs



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