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

Our Product Introduction

Basic Information

- Minimum Order Quantity: MOQ 1pc
- Price: USD 350
- Stock: 100pcs 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
- Gas Types: Flammable, Toxic, Oxygen
- Certifications: ATEX, CE, UL, SIL3
- Sensor: Electrochemical, Infrared, Catalytic
- Working Voltage: AC220V 50HZ Customized
- Output Signal: 4-20mA, RS485, Relay
- Sampling Method: Diffusion
- Highlight: **Industrial Safety Fixed Gas Detector**, **UL Certified Fixed Gas Detector**, **K800 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 for continuous safety monitoring in industrial settings where hazardous gases threaten people, assets, and operations. Engineered to meet modern safety standards, it integrates advanced sensing technology with reliable communication features for smooth integration into existing control systems.

Supporting both 3-wire and 4-wire setups, the K800 provides a standard 4–20 mA analog output, with optional RS485 MODBUS and HART digital protocols. This ensures compatibility with a wide range of Distributed Control Systems (DCS), Programmable Logic Controllers (PLC), and SCADA platforms, enabling real-time data exchange and coordinated control.

Intended for fixed installation, the K800 features built-in high and low gas concentration alarm relays, as well as fault relays. It continuously detects flammable and toxic gases, along with oxygen levels, in potentially explosive or confined environments, providing early warnings to help prevent accidents. Its rugged design and accurate sensing make it suitable for indoor or outdoor use in refineries, chemical plants, storage facilities, and manufacturing sites, ensuring ongoing protection of personnel and property in hazardous areas.

Precision Detection
The K800 features advanced sensor technology for highly accurate and dependable gas detection. Its sensor options include:
Electrochemical sensors for precise measurement of toxic gases and oxygen levels
Infrared sensors resistant to poisoning, ideal for flammable gas detection in harsh environments
Catalytic bead sensors designed to resist contamination and maintain long-term accuracy for combustible gases
These technologies ensure stable performance across diverse industrial applications, minimizing false alarms and enhancing safety responses.

Broad Detection Capability
Designed for versatility, the K800 supports multiple configurations to suit various industry requirements. It can detect:
Flammable gases via catalytic or infrared sensors
Toxic gases with high specificity
Oxygen levels to monitor enrichment or deficiency hazards
This flexibility makes it suitable for sectors such as oil & gas, chemical processing, wastewater treatment, power generation, and more.

Real-Time Monitoring and Alerts
Offering continuous 24/7 gas monitoring, the K800 provides instant alerts through integrated alarm systems with visual and audible signals. These prompt notifications enable swift safety actions before dangerous gas levels are reached.

User-Friendly Interface
Equipped with clear LED indicators, the unit displays real-time operational status including faults, warnings, and alarms. This intuitive design allows users to quickly assess the detector's condition, reducing risk and easing maintenance.

Rugged Design for Harsh Environments
The K800's industrial-grade enclosure is built to withstand tough conditions, including exposure to weather, dust, and mechanical stress. It is suitable for both indoor and outdoor installations in hazardous areas.

Easy Installation and Maintenance
Built-in mounting bracket ensures quick and secure setup

Removable plug-and-socket terminal blocks simplify wiring and maintenance
Plug-in sensor modules allow fast replacement without special tools or downtime
Cost-Effective Operation
Engineered for efficiency, the K800 reduces total ownership costs by:
Using a common transmitter platform compatible with multiple sensor types
Featuring an intuitive interface that minimizes training needs
Employing a modular design that lowers spare parts inventory
Supporting MODBUS multi-drop communication to cut cabling expenses in large-scale deployments
Whether monitoring a single site or multiple locations, the K800 offers reliable performance, enhanced safety, and scalable solutions.
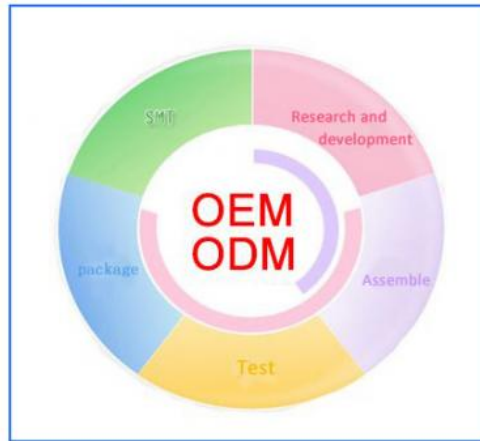
K800 Fixed Gas Detector

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
- **OBM/ 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