KQ500D series fixed gas detector is also called gas sensor.

It transforms the gas density in the operating site into standard electric current signal (4-20mA). With LED display, detector's sensor can be changed and reused as soon as it is connected to electricity.

KQ500D detector has excellent performance, stable operation and easy maintenance. Detector can detect various gases, it met various requirements in the operation site; it has been widely used in petrol, chemistry, metallurgy, artifice, gas transportation, biological medicine and water procession etc.

Main features:

1. Standard 4-20mA electric current output, compatible with existing alarm control unit or DSC (distributed control system).
2. LED site display that is suitable for factory
3. Standard three buttons: so an individual can operate the detector on site.
4. Automatic identify and display the sensor failures, output the corresponded current signal at the same time.
5. The key operation needs to input password to prevent wrong operation.
6. Simple calibration function; reducing measuring error
7. Two levels' light alarm, relay output (connected with audible & visual alarm outside or start exhaust system)

Technical parameters

Detecting Gas	combustible gas, toxic gas, oxygen
Measuring Range	see the chart
Working Voltage	24VDC±15%
Signal output	4~20mA linear current output;
Deviation	≤± 3% F.S
Respond Time	T90 < 30 s
Recovering time	≤ 30 s
Display model	LED display
Working Temperature	toxic gas: - 20 ℃ ~ + 50 ℃

	Combustible gas: - 40 ℃ ~ + 70 ℃
Working Humidity	10-95% R.H.(no condensation)
Explosion-proof level	Exd IICT6(used for explosion proofing detector) ;
	ExiaIICT4(used for intrinsic safety type detector)
Protection Class	IP66
Transition cable	three core shield cable RVVP 3×1.5mm2; 4×1.5mm2
Transmission distance	≤1000m
Weight	about 1.5kg

Product Information Chart

Product Model	Detected Gas	Measuring Range	Resolution	Respond Time (T90)	Low Alarm	High Alarm
KQ500D-EX	combustible gas	0-100%LEL	1%LEL	≤30s	20%LEL	50%LEL
KQ500D-O2	O2	0－30%vol	0.1%vol	≤15s	18.5%vol	23%vol
KQ500D-CO	CO	0－1000ppm	1 ppm	≤15s	50ppm	150ppm
KQ500D-H2S	H2S	0－100ppm	1 ppm	≤15s	10ppm	15ppm
KQ500D-HCN	HCN	0－20ppm	0.1ppm	≤30s	5ppm	10ppm
KQ500D-CL2	CL2	0－20ppm	0.1 ppm	≤30s	2ppm	5ppm
KQ500D-O3	O3	0－5ppm 0-100ppm	0.1 ppm 1ppm	≤25s	0.1ppm	0.5ppm
KQ500D-NH3	NH3	0－100ppm	1 ppm	≤30s	25ppm	50ppm
KQ500D-H2	H2	0－1000ppm	1 ppm	≤30s	50ppm	200ppm
KQ500D-NO2	NO2	0－20ppm	0.1 ppm	≤25s	2ppm	5ppm
KQ500D-PH3	PH3	0-20ppm	0.1 ppm	≤15s	1ppm	3ppm
KQ500D-C3H3N	C3H3N	0-100ppm	1ppm	≤30s	5ppm	15ppm
KQ500D-NO	NO	0-250ppm	1ppm	≤25s	35ppm	50ppm
KQ500D-HCL	HCL	0-20ppm	1ppm	≤25s	3ppm	5ppm
KQ500D-SO2	SO2	0－20ppm	0.1ppm	≤15s	2ppm	5ppm
KQ500D-CO2	CO2	0-5000ppm 0-5.00%vol	1ppm 0.01%vol	≤30 s	1000ppm 1.00%vol	2000ppm 2.00%vol