

## Energom-3006

## Fixed Gas Detector

### Brief Introduction



Energom-3006 is a high performance intelligent toxic gas detection alarm which imported brand gas sensor, high performance, supply couples of types of gas detection, low power microprocessor to ensure product performance and stability, real-time monitoring of the concentration of toxic gas. Mainly used in petroleum chemical industry, metallurgy, mining, fire, gas, environmental protection, electric power, communication, papermaking, printing and dyeing, food reserves, city water supply, sewage treatment, food, brewing, research, education, national defense and other places.

### Product features

- Modular structure, convenient maintenance, simple wiring installation
- Smart sensor platform, but plug and play, without calibration
- Fast response, high measurement accuracy and the running stability of the testing instrument
- Rich sensor range selection, can meet the requirements of customers
- Three kind of signal output, RS485 and 4~20mA (three wire) digital / analog signal and switch at the same time. Big screen segment type LCD real-time display gas concentration.
- Gas concentration unit optional (such as ppm, mg/m3), it have the instrument status, fault and communication abnormality prompt function.
- It can be set high and low alarm point, two level sound and light alarm.
- Two relay to control peripheral devices (such as the action of machine and sound and light alarm).

- Round casting stainless steel housing is suitable for offshore platforms, as well as high temperature, high humidity and other harsh environments.
- Good sealing, anti-corrosion, explosion-proof and anti EMI, RFI function.
- Supporting use of our company 's series alarm host.
- European design standards.
- The flame-proof and safety design,EXD II CT6 Gb, IP65

#### Parameters

Measured gas	Flammable gas、Toxic gas、Oxygen gas 、VOC		
Sensor Type	Electrochemical/infrared NDIR/catalytic combustion/PID		
Sampling way	Diffusion, pump (pipeline)		
Range	0-10ppm、0-100ppm、0-1000ppm、0-10000ppm (Range of optional, can be customized)		
Resolution	0.001ppm、0.01、0.1ppm、1ppm		
Electrical interface(thread)	M20*1.5, or G3/4、G1/2、1/2NPT、3/4NPT		
Response time	T90<30s	Display	LCD display real-time concentration, light emitting diode, buzzer alarm
Power	12~24VDC	Smart platform	Yes
Repeat	≤±2%	The linear error	≤±1%
Zero drift	≤±1% (F.S/Y)	Accuracy	≤± 3 % F.S.
Signal output	RS485、4-20mA、Two sets of relay output	Pressure range	860-1060hpa
Operating temperature	-40℃~70℃	The power consumption	<2.0W
Explosion-proof grade	Exd II CT6 Gb	Work humidity	0-95%RH(no condensing)
Sound and light alarm	OPTIONAL	Protection grade	IP65
Size	195mm*178mm*90mm (MAX)	Capacity	0.5A/125VAC or 1A/30VDC
Life for sensor	See date of sensor	Weight	1.2kg (Cast aluminum)
Execution standard	GB12358-2006,GB3836.1-2010		
	GB3836.2-2010,GB3836.4-2010		

## Lectotype table

Model	Detected gas	Range	Measurement principle
Energom-3006-CO	Carbon monoxide	0-200/1000ppm	Electrochemical
Energom-3006-CO-A	Carbon monoxide (H <sub>2</sub> )	0-200/1000ppm	Electrochemical
Energom-3006-H <sub>2</sub> S	Hydrogen sulfide	0-50/100/200/1000/5000ppm	Electrochemical
Energom-3006-O <sub>2</sub>	Oxygen	0-25%vol	Electrochemical
Energom-3006-NO <sub>2</sub>	Nitrogen Dioxide	0-20/500ppm	Electrochemical
Energom-3006-NO	Nitric Oxide	0-100/1000ppm	Electrochemical
Energom-3006-SO <sub>2</sub>	Sulfur Dioxide	0-20/100/2000ppm	Electrochemical
Energom-3006-Cl <sub>2</sub>	Chlorine	0-20/200/2000ppm	Electrochemical
Energom-3006-NH <sub>3</sub>	Ammonia	0-100/1000/5000ppm	Electrochemical
Energom-3006-H <sub>2</sub>	Hydrogen	0-1000/10000/40000ppm	Electrochemical
Energom-3006-H <sub>2</sub> -A	Hydrogen (CO)	0-1000ppm	Electrochemical
Energom-3006-PH <sub>3</sub>	Phosphine	0-5/20/1000ppm	Electrochemical
Energom-3006-CH <sub>2</sub> O	Formaldehyde	0-10/50/1000ppm	Electrochemical
Energom-3006-O <sub>3</sub>	Ozone	0-5/20/100/1000ppm	Electrochemical
Energom-3006-F <sub>2</sub>	Fluorine	0-1ppm	Electrochemical
Energom-3006-HF	Hydrogen fluoride	0-10ppm	Electrochemical
Energom-3006-HCl	Hydrogen chloride	0-20/200/1000ppm	Electrochemical
Energom-3006-HBr	Hydrogen bromide	0-20/200/1000ppm	Electrochemical
Energom-3006-C <sub>2</sub> H <sub>4</sub> O	Ethylene oxide	0-20/100ppm	Electrochemical
Energom-3006-C <sub>4</sub> H <sub>8</sub> S	Tetrahydrothiophene	0-1000ppm	Electrochemical
Energom-3006-SiH <sub>4</sub>	Silane	0-50ppm	Electrochemical
Energom-3006-ClO <sub>2</sub>	Chlorine dioxide	0-20/200/2000ppm	Electrochemical
Energom-3006-HCN	Hydrogen cyanide	0-100 ppm	Electrochemical
Energom-C <sub>2</sub> H <sub>4</sub>	Ethylene	0-10/200/1500 ppm	Electrochemical
Energom-3006-H <sub>2</sub> O <sub>2</sub>	Hydrogen peroxide	0-100/500/2000 ppm	Electrochemical
Energom-3006-EX	Combustible EX	0-100%LEL	catalytic combustion
Energom-3006-CO <sub>2</sub>	carbon dioxide	0-2000/5000ppm/1%/5%/20%/50%/100%VOL	infrared NDIR
Energom-3006-SF <sub>6</sub>	Sulfur hexafluoride	0-1000/2000/3000ppm	infrared NDIR
Energom-3006-CH <sub>4</sub>	Methane	0-5%/10%/20%/50%/100%VOL	infrared NDIR
Energom-3006-VOC	Volatile organic compound	0-20/200/2000/10000 ppm	PID

★ If you need other range or other special gases selection, please consult the sales engineer