麦芽传感科技
Maiya Sensor Technology

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Pump Type Gas Detector



Product introduction

Pump type voice gas detector (hereinafter referred to as detector) is a kind of safety equipment which can continuously use to detect the concentration of leaked gas. It adopts advanced integrated circuit technology, 32-bit embedded microcomputer chip control and imported 16 bit ultra-high resolution ADC detection special chip. The calculation speed is faster and the test data is more accurate and stable. The detector uses a 2.4-inch high-definition LCD color screen,through Chinese and English interface and Chinese and English voice prompts,users can quickly understand the product, easy to use and maintain; the detector uses aluminum alloy shell, USB charging interface, built-in 2900ma large capacity lithium battery and high-end vacuum suction pump, high-quality imported gas sensor, with excellent sensitivity and excellent repeatability; P PM and Mg / m3 range unit switch with one key, fast reaction speed, strong anti-interference ability,stable and reliable performance, in the domestic leading level.

The detector is widely used in petroleum, chemical industry, environmental protection, metallurgy, refining, gas, biochemical medicine, agriculture, fire protection, archaeology and other industries and places that need safety monitoring of toxic, harmful and explosion-proof. The detector can effectively predict the concentration of dangerous gas alarm, ensure the safety of the staff is not threatened, and the production equipment is not damaged.

Features and benefits

- Intrinsically safe circuit design, safe and reliable
- Triple alarm prompt of sound, light and vibration
- Beautiful appearance, convenient operation, accurate measurement, strong and durable
- 2.4-inch ultra-high definition liquid crystal color screen, perfectly presentingvarious gas detection indicators
- 16 bit data acquisition chip + 32-bit nano microprocessor, with higher resolution and faster reaction speed
- High strength aluminum alloy shell, resistant to acid, alkali, cold, heat, impact and flame
- Imported gas sensor with original packaging, high precision, strong stability, low error rate and good linearity
- The customer can set the high and low alarm value, alarm prompt switch andother functions as required
- 2900ma large capacity lithium battery, electrochemical sensor can work continuously for more than 20 hours
- One key switch between ppm and Mg / m3 measuring range unit, simple and clear
- Micro USB design, compatible with most Android mobile phone chargers and chargers in the market
- Chinese and English display interface, Chinese and English real person voice prompt. Applicable to all people
- Support curve drawing, convenient to observe the periodic state of gas concentration

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Technical parameters

Product type	Voice portable pump
Detection gas	More than 1000 combustible, toxic and volatile gases
Detection principle	Electrochemistry, infrared detection, catalytic combustion, PID, semiconductor, optical waveguide
Range	0-1、2、5、10、50、100、500、1000、5000(depends on the sensor and the technology)
Resolution	0.001、0.01、0.1、1、2、5(According to sensor and technical principle)
Unit	%VOL、%LEL、ppm、mg/m3 Optional
Precision	≤±3%(Actual concentration, higheraccuracy requirements depending on sensor performance)
Warm up time	≤60 S
Display mode	2.4Inch HD color screen
Alarm mode	Sound, light, vibration
working temperature	-20℃~+50℃(Special requirements to be customized)
Working humidity	≤95%RHnon-condensing
Working pressure	-30kPa~200kPa
Appearance size	130x63×36mm(LxWxH)
weight	About500g
Detection mode	Pump suction type
Protection level	IP66
Pump flow rate	300-500CC/Min
Texture of material	Aluminum alloy; strong, wear-resistant and corrosion-resistant
Executive standard	GB15322.1-2003,GB3836.1-2010,GB3836.2-2010,GB3836.4-2010
data storage	4000 alarm records
Charging voltage	DC 5V
voltage	3.7VDC(Built in 2900ma rechargeable polymer power supply)

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Part of gases specifications are as following:

Gases	Range	accuracy	resolution	response time	Principle
oxygen (O_2)	0-30%/100%VOL	＜±3%(F.S)	0.1%VOL	<15s	EC
combustible gas (Ex)	0-100%LEL	＜±3%(F.S)	0.1%LEL	<10s	Catalytic Oxidation
	0-100%LEL/VOL	＜±3%(F.S)	0.1%LEL/VOL	<10s	NDIR
carbon oxide (CO)	0—1000/2000ppm	＜±3%(F.S)	0.1ppm	<25s	EC
hydrogen sulfide (H_2S)	0-100/2000ppm	＜±3%(F.S)	0.1/1ppm	<30s	EC
sulfur dioxide (SO2)	0-100ppm	＜±3%(F.S)	0.1ppm	<30s	EC
Nitric Oxide (NO)	0-250ppm	＜±3%(F.S)	1ppm	<30s	EC
nitrogen dioxide (NO_2)	0-20ppm	＜±3%(F.S)	0.1ppm	<60s	EC
Chlorine (Cl_2)	0-20ppm	＜±3%(F.S)	0.1ppm	<30s	EC
Ammonia (NH_3)	0-100ppm	＜±3%(F.S)	0.1/1ppm	<50s	EC
hydrogen (H_2)	0-1000ppm	＜±3%(F.S)	1ppm	<60s	EC
hydrogen cyanide(HCN)	0-50ppm	＜±3%(F.S)	0.1ppm	<100s	EC
hydrogen chloride (HCl)	0-20ppm	＜±3%(F.S)	0.1ppm	<60s	EC
hydrogen phosphide(PH_3)	0-20ppm/1000ppm	＜±3%(F.S)	0. 1ppm	<25s	EC
Ozone (O_3)	0-20ppm	＜±3%(F.S)	0.01ppm	<30s	EC
chlorine dioxide (ClO_2)	0-20ppm	＜±3%(F.S)	0.1ppm	<30s	EC
ethylene oxide (C2H4O,ETO)	0-100ppm	＜±3%(F.S)	0.1ppm	<45s	EC
Formaldehyde (CH_20)	0-20ppm	＜±3%(F.S)	0.01ppm	<30s	EC
silane(SiH4)	0-50ppm	＜±3%(F.S)	0.1ppm	<60s	EC
hydrogen fluoride (HF)	0-10ppm	＜±3%(F.S)	0.1ppm	<60s	EC
fluorine (F_2)	0-1ppm	＜±3%(F.S)	0.01ppm	<60s	EC

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Phosgene ($COCl_2$)	0-1ppm	＜±3%(F.S)	0.01ppm	<60s	EC
Total Volatile Organic Compound gases (TVOC)	0-10/100/2000ppm	＜±2%(F.S)	0.01/0.01/0.1ppm	<30s	EC
Total Volatile Organic Compound gases (TVOC)	0-10/100/2000ppm	＜±2%(F.S)	0.01/0.01/0.1ppm	<30s	PID

Accessories

USB charger（DC 5V）,Data line ,Instructions ,Certificate

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