

GAS DETECTION

Multi - Gas Detector



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ABOUT US

Established in 2010, Shenzhen YuanTe Technology Co., Limited is a company that focuses on the design, production and sales of high-end gas detection equipment and system for 16 years. With "gas detector" as the core product, we have completed production lines and solutions according to different industries, such as Oil, Chemical, Medicine, Energy, Environmental Protection, Electronic, Municipal Engineering, Agriculture and Forestry, Household Appliances, etc. Through about 10 years of rapid development, Unitec becomes the influential supplier for gas detection equipment and system in the domestic and overseas market.

For years, YuanTe always insists on the management concept "Market is orientation; Innovation is motivation; Quality to survival; Development to growth". With friendly, open and strict corporate culture and standardized management, YuanTe gathers a

lot of talents, and builds up the management team and R&D team. All the staff cooperates well in product development, production and maintenance, and has a deep understanding of the concept of "customer-oriented", and runs the service spirit through the company operation and management, to win the trust and support from customers.

The essence of a detector is the accuracy and faster response. Depending on years of measurement experience and unique solutions, through independent research and development, cooperative development and learning overseas latest technology, Unitec's products are advanced beyond the domestic brands and ahead of the global brands. We are seeking for development and progress constantly, and trying to meet diversified demands from customers.

MORE ACCURATE RAPID RELIABLE

**SPECIALIZED
IN GAS DETECTION
FOR 16 YEARS**



SKY2000

Pumping Gas Detector

Product Overview

SKY2000 series gas detector is a kind of fast response and high accuracy gas measurement device. With internal sampling pump, fast sampling speed and high flow rate, ensuring the response time of the detector. Unique design, small size and easy to carry with. Special high intensity engineering plastics housing, suitable for different kinds of situation and environment. We dedicate to provide you the most reliable, accurate and the safest solution of gas detection.



SKY2000 Pumping Gas Detector

Product Advantages

- Employing original imported first-class brand sensor. (optional) High speed data transmission by USB, which can download and print data.
- LCD dot matrix display, the gas type, unit, concentration, local time can be showed on the screen.
- Support Chinese and English operation, easy to shift.
- The gas concentration unit PPM and mg/m3 can be shifted quickly.
- Built-in micro sampling pump, 10 grades of suction are available.
- Explosion-proof certification, explosion-proof grade: ExicIICT3Gc

Functions

- Monitor the specified gas concentration in environment and enclosed space and alarm.
- With Self-calibration and zero calibration functions, makes the detection more accurate and reliable.
- One press to restore factory setting, free from the bother of mis-operation.
- With temperature and pressure compensation, this is able to realize gas concentration compensation under conditions of different temperatures or pressures.
- Two-stage alarm with sound and light, alarm point is settable.
- Rechargeable lithium polymer battery of large capacity.
- Employing pumping sampling method and the pumping suction is adjustable.
- Special engineering plastics housing of high intensity, anti-skipping, water-proof, dust-proof, explosion-proof.
- Elegant and exquisite aluminum alloy suitcase.

Technical Specification

Gas Detected	O2, N2, CO2, EX, hazardous gas, vol, etc.		
Detection principle	Electrochemistry, infrared ray, catalytic combustion, PID photo ionization (according to the target gas and sensor).		
Sampling Method	Pumping suction, flow rate can up to 1 L/min, ten grades of pumping suction for selection.		
Measure Range	The range is optional, according to the target gas and the sensor.		
Resolution	According to sensor and measure range		
Precision	According to sensor.		
Signal Output	(optional function) High-speed data transmission by USB, available for data downloading and printing.		
Response Time	≤ 30s	Recovery Time	≤ 10s
Repeatability	±1%	Linearity error	±1%
Zero shift	±1% (F.S/year)	Display	LCD dot matrix display
Operating language	Chinese / English	Gas unit	units are switchable
Temperature	-20°C ~ 50°C	Humidity	0-95%RH
Explosion -Proof	II 2G Ex ia IIC T4 Ga IP66	Degree of protection	IP66
Alarm mode	Sound, light, vibration	Operating time	100h (pump off)
Dimensions	205*75*32mm	Weight	300g



SKY6000

Portable Multi Gas Detection Equipment

Product Overview

The SKY6000 series gas detector is a portable equipment which can be used in scientific research, university, complex working environment and so on.

The SKY6000 series gas detector can detect up to four gases at the same time. It can fuse electro-chemistry, catalysis, thermal conduction, infrared, photoion, ultraviolet and other detection principles. We are committed to providing customers with the most reliable, accurate and safe gas detection instrument.



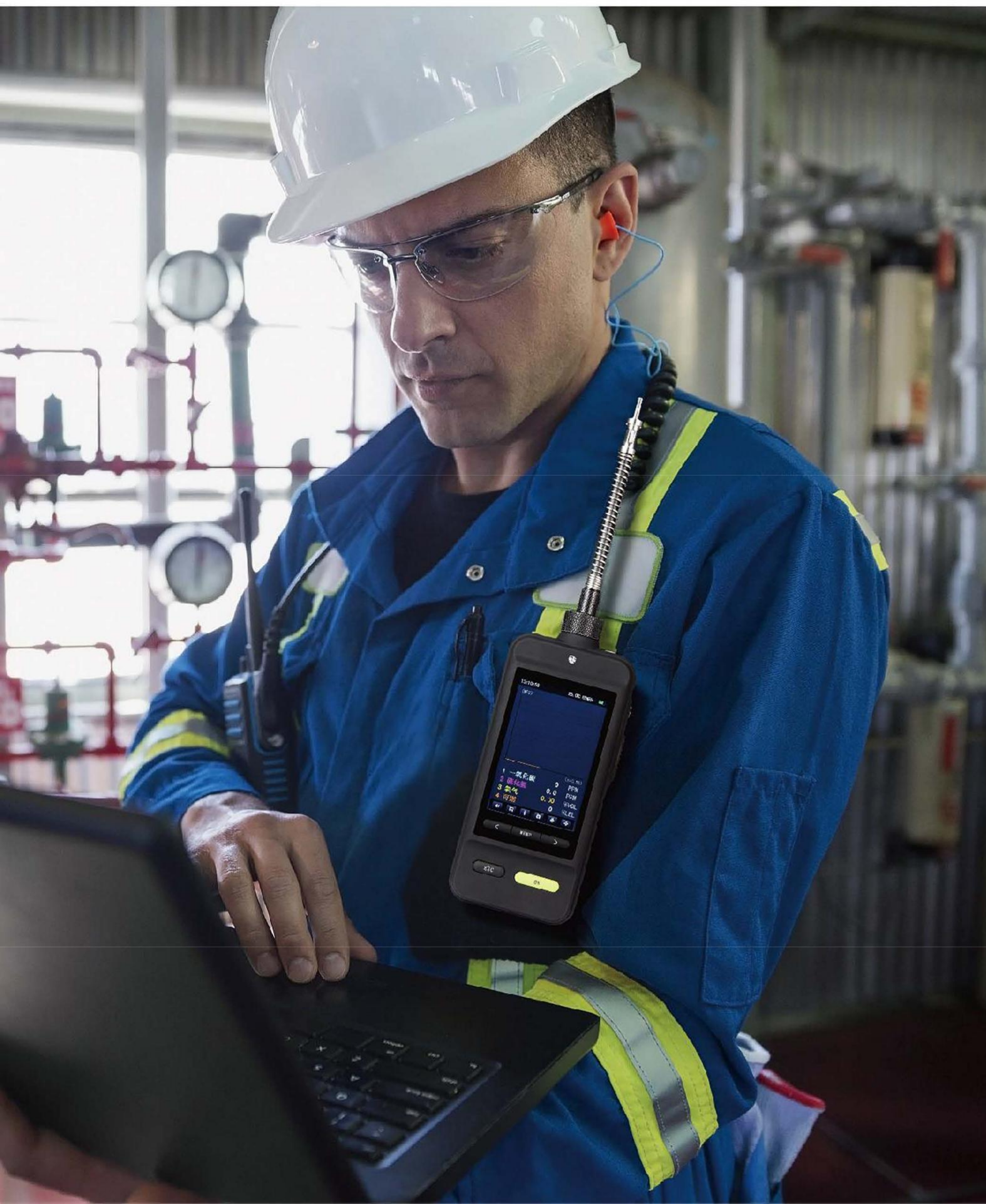
SKY6000
Portable Multi Gas
Detection Equipment

Product Advantages

- Integrated built-in pumping gas detector can detect and display one or more gases simultaneously.
- 3.5-inch high-definition color screen and 120 ° degree wide view
- With detachable suction probe $\geq 130\text{mm}$, double-layer pipeline: Internal PTFE layer and it can not absorb any gas;
- Plus spring protection layer, 360 degree bendable and hardly deformed.
- Specially designed flashlight button which can turn on with one button and operator can detect with lighting in the dark environment.
- With pinhole type one-key recovery button, can restart the instrument with one button for recovering caused by misoperation.
- Internal modular design, smaller and lighter for easily carry.

Functions

- Imported miniature vacuum suction pump from Germany: stable flow, long life, low noise, support remote sampling.
- Equipped with three-layer filter to filter oil, water, dust and other impurities efficiently.
- Gas concentration data display and gas concentration real-time curve display modes are switchable.
- Pump flow rate can be adjusted with 10 grades, gas detection flow rate can be customized according to different testing environments.
- Optional external Bluetooth printer can realize mobile print.
- One-click screen capture function, save detection data, curve in image format.
- Bluetooth, ZIGBEE, WIFI, GPRS and other wireless communication modes are optional.
- Various gas units can be shift easily, concentration values are converted automatically by system.
- With temperature and humidity detection and compensation function.
- Chinese and English display are switchable.
- Large capacity fast storage function, storage space can be customized.
- Micro-USB charging interface is designed to be charged anytime, anywhere with common data lines and mobile power
- Large capacity rechargeable lithium battery for longer standby time.
- High temperature, high humidity and dust environment gas detection can be achieved (optional pretreatment probe)
- Tasteless, Explosion-proof, Waterproof, Heat - Resistant, High - Temperature
- Resistant, Corrosion Resistant, ABC material Suitcase.



⑨ Technical Specification

Battery	3.7V rechargeable lithium battery, working hours are more than 50h (without Exgas), recharge time is less than 6h		
Precision	±2%F.S (Higher Precision can be customized)		
Temperature and humidity measurement	Temperature: 20-50°C, Resolution: 0.1°C; Humidity: 0-99%RH, Resolution: 1%RH		
Pump flow rate	Flow rate adjustable, flow range: 0-500 cc/Min.		
Humidity	0-95%RH (no condensation) (optional filter device is available if high humidity)		
Temperature	-20°C to +50°C, Optional gas sampling gun, can detect up to 1200 degrees gas concentration		
Screen	3.5-inch hd LCD screen with resolution 320*480, with flashlight function		
Degree of protection	IP66	Explosion-proof	II 2G Ex ia IIC T4 Ga IP66
Pressure measurement	0.5-2.0 bar (optional)	Warranty	12 months
Weight	400g	Size	(HxWxD) 270*75*41mm

Ordering Information

Detecting gas	(CO, H2S, O2, EX) can detect any of 4 gases, temperature, humidity and pressure at the same time
Sensors	Combustible: catalytic combustion principle or infrared principle; CO: electrochemical principle or zirconia principle; toxic: electrochemical principle; CO2: infrared principle; VOC: PID photo ion principle; CH4: catalytic combustion principle or infrared principle; He: thermal conductivity Principle, temperature and humidity sensors, pressure sensors (optional) (other principles of the sensor can be customized)
Measure range	0-1, 10, 100, 1000, 5000, 50000, 100000 PPM; 0-100mg/L, 200mg/L; 0-100%LEL; 0-10%, 20%, 50%, 99.999%, 100%Vol (Measure range is optional and customized)
Resolution	0.001 PPM (0-1 PPM); 0.01 PPM or 0.001 PPM (0-10 PPM); 0.1 PPM or 0.01 PPM (0-100 PPM); 1 PPM or 0.1 PPM (0-1000 PPM); 1PPM (0-1000 PPM); 0.01 mg/L (0-200mg/L); 0.1 %LEL (0-100%LEL); 0.01%(0-100%VOL)
Display	formula, unit, measurement value, time, battery, alarm status, data recording status, historical data

Key Features

Sampling	Built-in suction sampling, select high-quality micro pump, small noise and vibration. Suction can reach 1 U/min.
Alarm	Buzzer, low battery alarm, White flash and alarm status on display
Data storage	Various data are optional, 8G memory are optional.
Data transmission	USB interface data transmission, with the upper computer software, can data, support the memory card transmission data in one key
Print(Optional)/function	Optional with internal portable printer or external bluetooth printer
Print content (Optional)	Text, graphics, one-dimensional code, two-dimensional code, curves, characters, etc.
Charger	Standard Mini-USB charging port. The commonly used car charger, mobile power supply and common mobile phone charging line can be charged for it
Wireless network (optional)	Bluetooth, Zigbee. Wireless transmission distance. Bluetooth is less than 10m, and the ZigBee outdoor single point is less than 500m.
Language	Chinese/English. Network frequency. 2.4G high frequency.



YT-1200H

Portable Multi Gas Detector

Product Overview

YT-1200H series gas detector is a portable instrument which can be used in municipal, tunnels, petrochemical industry and other restricted spaces.

YT-1200H series gas detector can detect up to four gases at the same time. It can fuse electrochemistry, catalysis, thermal conduction, infrared, photo-ion, ultraviolet and other detection principles. We are committed to providing customers with the most reliable, accurate and safe gas detection instrument.



YT-1200H
Portable Multi Gas Detector

Product Advantages

- Employ original imported high-precision sensor, four random gas sensors can be combined freely.
- LCD dot matrix display, support Chinese and English operation.
- The gas concentration unit PPM and mg/m3 can be shifted quickly.
- Ultra-high buzzer alarm sound, higher and lower alarm values are settable.
- Data storage function, historical data can be viewed on the device (optional).
- Rechargeable lithium polymer battery of large capacity, which ensures the device to work continuously for a long time.
- Strong and upscale alligator clip, convenient to take along during operation.
- Special engineering plastics housing of high intensity, strong and durable, exquisite and comfortable in touching.
- Elegant and exquisite aluminum alloy packaging suitcase.



Technical Specification

Gases	O ₂ , N ₂ , CO ₂ , EX, hazardous gas, etc.		
Measure range	Range is optional, according to the detected gas		
Resolution	0.01 ppm, 0.1 ppm, 1 ppm		
Sampling method	Diffusion (add external sampling pump if necessary)		
Display	Monochrome dot matrix 128*128 LCD graphic display.		
Backlight	Time of backlight is settable, when alarm the backlight will be auto on.		
Direct reading	Gas molecular formula, concentration unit, measured value, time, battery, alarm state, data record status.		
Data recording	Storage capacity of over one hundred thousand sets, 11 can continue to store for 15 months with interval of 5 minutes. Interval time ranges from 10-3600 seconds are settable. (Optional function)		
Calibration	Two target point calibration, both can be set up a calibration value. Support automatic zero point calibration of all channels by one click.		
Password protection	Password Protection: calibration is protected by password, and the password is resettable.		
Restoration	Support restoration of factory calibration, support restoration of factory parameter settings.		
Alarm type	Sound and light. Higher and lower alarm point values are settable. There are three alarm status for selection: ON/OFF/MUTE.		
Battery	3.7V rechargeable lithium battery, with capacity of 1800mAh, and the working time is more than 50 hours (no combustible gas), and the charging time is less than 6 hours.		
Working humidity	0-95%RH (Non-condensing, a filter dryer is needed in environment of humidity more than 90%RH)		
explosion-proof grade	II 2G Ex ia IIC T4 Ga IP66	Unit	ppm, mg/m ³ , %VOL
Protection grade	IP66	Housing Material	ABS+PC
Working temperature	-20°C ~ 50°C	Language	Chinese/English
Charger	Travel charger with USB.	Dimension	155*73*35mm (length*width*height)
Detection principle	Electrochemistry	Weight	300 g



YT-1200H-S

Portable Multi Gas Detector



YT-1200H-S
Portable Multi Gas Detector

Product Overview

YT-1200H-S series gas detector is kind of mini size and high accuracy portable multi gas detector. Easy to operate, comprehensive functions, can measure 4 common gas hazards: carbon monoxide, hydrogen sulphide, flammable gases and oxygen depletion, other multi gases are available for customization. The detector is with back clip, protected by silicone case, suitable for different kinds of situations.

Product Advantages

- Employ original imported high-precision sensor.
- Four random gas sensors can be combined freely.
- LCD dot matrix display, support Chinese and English operation.
- The gas concentration unit PPM and mg/m3 can be shifted quickly.
- The battery and voltage can be checked by one press.
- One press to restore factory settings.
- Ultra-high buzzer alarm sound, alarm with sound, light and vibration at the same time.
- Can record 100 sets alarm data, alarm record can be checked on the device.
- Data storage function, can record 100 thousand set data, historical data can be viewed on the device (optional function).
- Rechargeable lithium polymer battery of large capacity, which ensure the device to work continuously for a long time.
- Strong and upscale alligator clip, convenient to take along during operation.
- Special engineering plastics housing of high intensity, strong and durable, exquisite and comfortable in touching.



Technical Specification

Sampling method	Diffusion
Detected gas	O2, N2, CO2, EX, hazardous gas, etc.
Detection principle	Electrochemistry, infrared ray, catalytic combustion, PIO photo ionization (according to the target gas and sensor).
Measure range	The range is optional, according to the target gas and the sensor.
Resolution	According to sensor and measure range
Precision	According to sensor. ±5%F.S.
Unit	ppm, mg/m3, %VOL, %LEL (ppm, mg/m3 can be shifted by one click, the concentration value will be auto converted by the system)
Display	Monochrome dot matrix 128*128 LCD graphic display.
Backlight	Time of backlight is settable, when alarm the backlight will be auto on.
Data recording	Storage capacity of over one hundred thousand sets. Interval time ranges from 10-3600 seconds are settable(Optional. function)
Alarm recording	can record 10000 set alarm record, the record can be checked on the device. (Optional function)
Language	Chinese/English
Alarm type	sound, light, vibration.
Battery	3.7V rechargeable lithium battery, with capacity of 2300mAh.
Working time	14h continuously (common 4 gases). 200h(without LEL sense)
Charger	travel charger with USB. Charging time: 4~6h
Explosion-proof grade	II 2G Ex ia IIC T4 Ga IP66
Protection grade	IP66
Working temperature	-20°C - 50°C
Working humidity	0 - 95%RH (Non-condensing, a filter dryer is needed in environment of humidity more than 90%RH)
Housing material	ABS+ leather case
Dimension	131 *83*35mm (length*width*height)
Weight	240g



SKY8000

Multi Gas Analyzer

Product Overview

SKY8000 series gas analyzer is a data collector which can quickly acquire and analyze gas concentration components in scientific research, university, environmental monitoring, smoke emission and other complex working environment. SKY8000 gas analyzer can detect up to 18 gases simultaneously.

It can integrate electrochemistry, catalysis, thermal conductivity, infrared, light ion, ultraviolet and other detection principles, focusing on the accuracy of gas detection and user experience.



SKY8000 Multi Gas Analyzer

⑨ Product Advantages

- Perfect design, preferably aviation wear - resistant materials.
- Adopt 3.5-inch high definition color screen, 120 degrees wide view.
- With modular internal structure, can realize up to 18 gas detection according to customer requirements.
- Beautiful and friendly user interface.
- The gas concentration data display, real-time curve display are switchable.
- With up to three air intake pumps and efficient filtration system.
- Large capacity fast storage function, support different storage mode.
- With Mini-USB charging interface design and data line & mobile power, can be charged anytime anywhere.
- Large capacity rechargeable lithium battery, longer standby time.
- Temperature, humidity and pressure can be measured at the same time(optional).
- Optional built-in portable printer and external bluetooth printer can realize mobile printing function(optional).
- Can realize gas detection in high temperature environment (optional).

⑨ Technical Specification

Size	(H x W x D) 260*230*120mm		
Weight	3700g		
Battery	Large capacity rechargeable lithium battery,5400mAh/11.1 V (internal Printer type) or 10000mAh/3.7V (external printer type) working hours are more than 32h with single gas and 24h with six gases together		
Precision	± 2%F.S (Higher precision can be customized)		
Temperature and humidity measurement	Temperature: -20~50℃ , Resolution: 0.1℃; Humidity: 0-99%RH, Resolution: 1%RH		
Pump flow rate	10 grades adjustable, flow range: 0-500 cc/Min.		
Humidity	0~95%RH(no condensation optional filter device is available if high humidity)		
Temperature	-40℃~+70℃ , Optional gas sampling gun, can detect up to 1200 degrees gas concentration		
Screen	3.5-inch hd LCD screen with resolution 320* 480		
Degree of protection	IP66	Explosion-proof	II 2G Ex ia IIC T4 Ga IP66
Pressure measurement	0.5-2.0 bar (optional)	Warranty	12 months



▲ **SKY8000**

Application in Inspection and Quarantine Bureau, Hospital, etc..



▲ **SKY8000**
Application in mine, tunnel engineering, etc.



▲ **SKY8000**
Application in mine, tunnel engineering, etc.



▲ **SKY8000**
Application in municipal engineering, construction site, etc.

Ordering Information

Sensors	Various principle sensors can be combined in any number , up to 18 sensors; Combustible: catalytic combustion principle or infrared principle; oxygen: electrochemical principle or zirconia principle; toxic: electrochemical principle; CO2: infrared principle; VOC: PID photo ion principle; CH4: catalytic combustion principle or infrared principle; He: thermal conductivity Principle, temperature and humidity sensors, pressure sensors (optional) (other principles of the sensor can be customized)
Measure range	0-1、10、100、1000、5000、50000、100000 PPM; 0-100mg/L、200mg/L; 0-100%LEL; 0-10%、20%、50%、99.999%、100%Vol (Measure range is optional and customerized)
Resolution	0.001 PPM (0-1 PPM); 0.01 PPM or 0.001 PPM (0-10 PPM) ; 0.1 PPM or 0.01 PPM (0-100 PPM) ; 1 PPM or 0.1 PPM (0-1000 PPM) ; 1 PPM (0-1000 PPM) ; 0.01mg/L (0-200mg/L) ; 0.1%LEL (0-100%LEL); 0.01%(0-100%VOL)
Display	Formula, gas concentration data, measurement trend curve, gas curve, battery, time, temperature, humidity, pressure (optional), pump condition, wireless status, printer status, screen shot status

Key Features

Alarm	Buzzer, red LED and alarm status on the display, fault alarm, pump abnormal alarm, low battery alarm
Data storage	Independent SD memory card, Max.32G, measurement data can be record automatically, customizable record time interval.
Data transmission and download	RS232,RS485 signal output,USB interface data transmission, with the upper computer software, can download storage, analyze and print data
Print function (Optional)	Optional with internal portable printer or external bluetooth printer
Print content (Optional)	Text, graphics, one-dimensional code, two-dimensional code, curves, characters, etc.
Charger	Standard Mini-USB charging port. With 13V/2A special charger (built-in printer) or 5V/2A universal charger (external printer)
Language	Chinese/English
Wireless network (optional)	Bluetooth,Zigbee
Network frequency	2.4G high frequency.
Wireless transmission distance	Bluetooth is less than 10m, and the ZigBee outdoor single point is less than 500m.

YT-95H

Online Gas Detector With Display



YT-95H
Online Gas Detector With Display

Product Overview

YT-95H series gas detector is a kind of monitoring gas concentration in different kinds of situations or pipelines 24h continuously wall mounted type gas detector. Using world first brand sensors, and advanced micro-process technology, with data display, fast response, high precision and good stability. Powered by 24V DC, with 4-20mA, RS485, relay signal output. Explosion proof, suitable for different kinds of situations.

Product Advantages

- Employing overseas original sensor.
- Standard equipped with three-wire system 4-20mA analog output; relay output; RS485 output (optional)
- Unique infrared ray control function, which can non-contacted control the device.
- Being compatible with all kinds of controlled alarms, PLC, DCS and other control system, can be remote monitored.
- Explosion-proof design, fast, reliable and stable.
- Explosion-proof grade: Ex d II CT6
- With self-calibration function and three standard keys will be used to realize on-site maintenance.
- Monitor the specific gas concentration in environment or pipeline and alarm.
- With self-calibration and zero calibration function, makes the detection more accurate and reliable.
- With temperature compensation, this is able to realize gas concentration compensation under conditions of different temperatures.
- Infrared ray controller can remote control alarm point settings, zero calibration, and address modification.
- Can output one or two on-off signals, can drive ventilator or solenoid valve and other external devices.
- Working Voltage: 12-36V DC
- Case: die-cast aluminum

Technical Specification

Gas detected	O2, N2, CO2, EX, hazardous gas, VOC, etc.
Detection principle	Electrochemistry, infrared ray, catalytic combustion, PID photo ionization (according to the target gas and sensor).
Install method	Wall-mounted, piping type, flow-type (according to the detected environment)
Measure range	The range is optional, according to the target gas and the sensor.
Resolution	According to sensor and measure range
Precision	3%FS-5%FS
Output signal	4-20mA, 0-5V, RS485, RS232, relay, wireless digital (optional)
Response time	≤10S
Repeatability	≤±1%
Zero shift	≤±1% (F.S/year)
Connection mode	G1/2 external thread explosion-proof flexible pipe
Temperature	-20℃ ~ 50℃
Explosion-proof	Ex d II CT6
Power	12-36V DC
Dimensions	180×150×90mm
Recovery time	≤10S
Linearity error	≤±1%
Relay output	220V AC 3A (optional)
Thread size	M45*2mm
Humidity	0-95%RH
Degree of protection	IP65
Operating time	24h
Weight	≤1.6kg

YT-95H-A

Online Gas Alarm



Product Overview

YT-95H series gas detector(with alarm light) is a kind of monitoring gas concentration in different kinds of situations or pipelines 24h continuously wall mounted type gas detector.

Using world first brand sensors, and advanced micro-process technology, with data display and high/low alarm, fast response, high precision and good stability. Powered by 24V DC, with 4-20mA, RS485, relay signal output. explosion proof, suitable for different kinds of situations



YT-95H-A
Online Gas Alarm

Product Advantages

- Employing overseas original sensor.
- Standard equipped with three-wire system 4-20mA analog output; relay output; RS485 output (optional)
- Unique infrared ray control function, which can non-contacted control the device.
- Being compatible with all kinds of controlled alarms, PLC, DCS and other control system, can be remote monitored.
- Explosion-proof design, fast, reliable and stable.
- Explosion-proof grade: ExdIICT6 Gb
- With self-calibration function and three standard keys will be used to realize on-site maintenance.
- Monitor the specific gas concentration in environment or pipeline and alarm.
- With self-calibration and zero calibration function, makes the detection more accurate and reliable.
- With temperature compensation, this is able to realize gas concentration compensation under conditions of different temperatures.
- Infrared ray controller can remote control alarm point settings, zero calibration, and address modification.
- Can output one or two on-off signals, can drive ventilator or solenoid valve and other external devices.
- Working Voltage: 12-36V DC
- Case: die-cast aluminum

Technical Specification

Gas Detected	O2, N2, CO2, EX, hazardous gas, VOC, etc.
Detection Principle	Electrochemistry, infrared ray, catalytic combustion, PID photo ionization (according to the target gas and sensor).
Install Method	Wall-mounted, piping type, flow-type(according to the detected environment)
Measure Range	The range is optional, according to the target gas and the sensor.
Resolution	According to sensor and measure range
Precision	3%FS-5%FS
Output signal	4-20MA, RS485, relay (optional)
Response time	≤10S
Repeatability	≤±1%
Zero shift	≤±1% (F.S/year)
Connection mode	G1/2 external thread explosion-proof flexible pipe
Temperature	-20℃ ~ 50℃
Explosion-proof	Ex d II CT6
Alarm mode	Sound, light
Dimensions	180 × 150 × 90mm
Recovery time	≤10S
Linearity error	≤±1%
Display	High light nixie tube display
Gas unit	PPM
Humidity	0-95%RH
Degree of protection	IP65
Operating time	24h
Weight	≤1.6kg

YT-95H

Online gas detector without display



Product Overview

YT-95H series gas detector(without display) is a kind of monitoring gas concentration in different kinds of situations or pipelines 24h continuously wall mounted type gas detector. Using world first brand sensors, and advanced micro-process technology, fast response, high precision and good stability.

Powered by 24V DC, with 4-20mA signal output. Explosion proof, suitable for different kinds of situations.



YT-95H
Online gas detector without display

Product Advantages

- Employing overseas original sensor.
- Standard equipped with three-wire system 4-20mA analog output; relay output; RS485 output (optional)
- Unique infrared ray control function, which can non-contacted control the device.
- Being compatible with all kinds of controlled alarms, PLC, DCS and other control system, can be remote monitored.
- Explosion-proof design, fast, reliable and stable.
- Explosion-proof grade: Ex d II CT6
- With self-calibration function and three standard keys will be used to realize on-site maintenance.
- Monitor the specific gas concentration in environment or pipeline and alarm.
- With self-calibration and zero calibration function, makes the detection more accurate and reliable.
- With temperature compensation, this is able to realize gas concentration compensation under conditions of different temperatures.
- Infrared ray controller can remote control alarm point settings, zero calibration, and address modification.
- Can output one or two on-off signals, can drive ventilator or solenoid valve and other external devices.
- Working Voltage: 12-36V DC
- Case: die-cast aluminum

Technical Specification

Gas detected	O2, N2, CO2, EX, hazardous gas, VOC, etc.
Detection principle	Electrochemistry, infrared ray, catalytic combustion, PID photo ionization (according to the target gas and sensor).
Install Method	Wall-mounted, piping type, flow-type(according to the detected environment)
Measure range	The range is optional, according to the target gas and the sensor.
Resolution	According to sensor and measure range
Precision	3%FS-5%FS
Output signal	4-20mA, 0-5V, RS485, RS232, relay, wireless digital (optional)
Response time	≤10S
Repeatability	≤±1%
Zero shift	≤±1% (F.S/year)
Connection mode	G1/2 external thread explosion-proof flexible pipe
Temperature	-20℃ ~ 50℃
Explosion-proof	Ex d II CT6
Power	12-36V DC
Dimensions	180 × 150 × 90mm
Recovery time	≤10S
Linearity error	≤±1%
Relay output	220V AC 3A (optional)
Thread size	M45*2mm
Humidity	0-95%RH
Degree of protection	IP65
Operating time	24h
Weight	≤1.6kg

YT-1000H

Single Channel Gas Alarm Controller



YT-1000H
Single Channel Gas Alarm Controller

Product Overview

The single/double gas alarm controller is a smart controlled system that is practical and easy operated. It can be connected to the gas sensor that with 4-20mA signal output, to realize remote control and system integration. It is compatible to different kinds of gas sensors, mainly use for areas that need to measure combustible or toxic gases, which can show the gas concentration directly, and when the gas concentration reaches to the alarm point, the controller will alarm with sound and light. The controller is also with relay output, which can control the exhaust fan and other devices, to realize intelligent and automatic operation.

Product Advantages

- Advance micro-processing technology
- Good stability, high precision
- Universal, 4-20mA input
- High light LED nixie tube display the concentration, with two levels alarm setting
- With lock and voice elimination function
- Relay output
- 4-20mA output (optional)
- Install method: wall mounted



Technical Specification

Detection principle	the system supply 24V DC power for the connected sensors, and collected the 4-20mA input signals, analyze and show the data of the sensors, and set alarm data of the sensors		
Relay output	1-2 relays signal output, which is corresponding to the input signal accordingly. The corresponding channel and output method are adjustable, and can provide 220V 10A driving force.		
Display	High light LED nixie tube display		
Working environment	temperature: 20°C ~ 50°C, humidity <95%		
System power	under full load of 2 channels, max consumption is 10W		
Application	the system is suitable for all the sensors with 4-20mA signal output		
Alarm way	two levels light and sound alarm		
Signal Transmission Distance	1000m		
Alarm set	low alarm, high alarm	Working voltage	220V AC, 50HZ
Install method	wall mounted	Dimension	30.5cm*21cm*9cm
Output signal	4-20mA (optional)	Weight	2.5kg

YT-1000H

Double channel gas alarm controller



Product Overview

The double gas alarm controller is a smart controlled system that is practical and easy operated. It can be connected to the gas sensor that with 4-20mA signal output, to realize remote control and system integration. It is compatible to different kinds of gas sensors, mainly use for areas that need to measure combustible or toxic gases, which can show the gas concentration directly, and when the gas concentration reaches to the alarm point, the controller will alarm with sound and light. The controller is also with relay output, which can control the exhaust fan and other devices, to realize intelligent and automatic operation.

Product Advantages

- Advance micro-processing technology
- Good stability, high precision
- Universal, 4-20mA input
- High light LED nixie tube display the concentration, with two levels alarm setting
- With lock and voice elimination function
- Relay output
- 4-20mA output (optional)
- Install method: wall mounted



Technical Specification

Detection principle	the system supply 24V DC power for the connected sensors, and collected the 4-20mA input signals, analyze and show the data of the sensors, and set alarm data of the sensors		
Relay output	1-2 relays signal output, which is corresponding to the input signal accordingly. The corresponding channel and output method are adjustable, and can provide 220V 10A driving force.		
Application	the system is suitable for all the sensors with 4-20mA signal output		
Display	High light LED nixie tube display		
Working environment	temperature: 20℃~50℃, humidity <95%		
System power	under full load of 2 channels, max consumption is 10W		
Working voltage	220V AC, 50HZ	Output signal	4-20mA (optional)
Alarm set	low alarm, high alarm	Signal transmission distance	1000m
Alarm way	two levels light and sound alarm	Weight	2.5kg
Input signal	4-20mA	Dimension	30.5cm*21cm*9cm



YT-1000H
Double channel gas alarm controller

YT-1000H

Multichannel Gas Alarm Controller



Product Overview

The multichannel gas alarm controller is a smart controlled system that is practical and easy operated. It can be connected to several gas sensors that with 4-20mA signal output, to realize remote control and system integration. It is compatible to different kinds of gas sensors, mainly use for areas that need to measure combustible or toxic gases, which can show the gas concentration of each sensor directly, and when the gas concentration reaches to the alarm point, the controller will alarm with sound and light. The controller is also with relay output, which can control the exhaust fan and other devices, to realize intelligent and automatic operation.

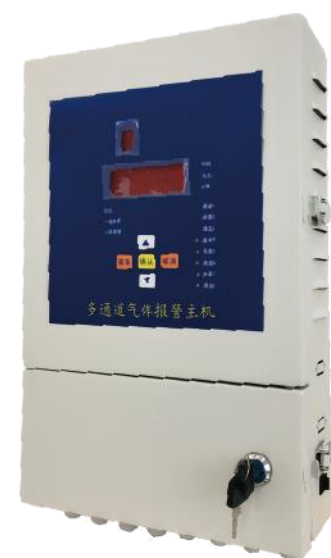
Product Advantages

- Advance micro-processing technology
- Good stability, high precision
- Universal, 4-20mA input
- High light LED nixie tube display the concentration, with two levels alarm setting.
- With lock and voice elimination function
- Relay output
- Install method: wall mounted



Technical Specification

Detection principle	the system supply 24V DC power for the connected sensors, and collected the 4-20mA input signals, analyze and show the data of the sensors, and set alarm data of the sensors		
Relay output	several relays signal output, which is corresponding to the input signal accordingly. The corresponding channel and output method are adjustable.		
Application	the system is suitable for all the sensors with 4-20mA signal output		
System power	under full load of 8 channels, max consumption is 50W		
Display	High light LED nixie tube display		
Working environment temperature	20°C ~ 50°C, humidity <95%		
Alarm way	two levels light and sound alarm		
Alarm set	low alarm, high alarm	Input signal	4-20mA
Install method	wall mounted	Output Signal	4-20mA (optional)
Working voltage	220V AC, 50HZ	Dimension	48cm*27cm*9cm
Signal transmission distance	1000m	Weight	4.6kg



YT-1000H
Multichannel Gas Alarm Controller

YT-1000H

Bus System Gas Alarm Controller



YT-1000H
Bus System Gas Alarm Controller

Product Overview

Bus system controller is a simple and practical controller that can connect 128 detectors. The system is compatible with all kinds of gas detectors. The 7-inch touch screen shows local time, detection gas, gas concentration, gas concentration unit and whether the current detector is in good condition in real time. When the gas concentration reaches the preset alarm value, it generates sound alarm. The controller can keep 1000 gas alarm records, which is convenient for users to keep track of the detector alarm status at any time.

Product advantages

- Advanced microprocessor technology
- 7 inch touch screen operation
- Good stability, high precision
- Universal, RS485 signal input
- High brightness touch screen display, with two alarm functions
- 3 channels relays and 1 common relay output
- Display local time, type of gas detected, gas concentration, current detector status, etc in real time
- standard RS485 signal output (optional)



Technical Specification

Transmission distance	the maximum distance between detector and controller is less than 1000 meters, and the maximum distance between computer and host is less than 1000 meters.		
Communication interface	1 RS485 communicates with bus transmitter. RS485 can be connected to the computer, and the computer can monitor all the data of the alarm host in real time.		
Gas detected	EX, CO, O2, N2, CO, H2S, CL2, NH4, SO2, H2, NO2, etc		
Liquid crystal	800* 480 resolution, 7 inch resistance touch screen.		
Switching output	3 channel relays and 1 common relay		
Host capacity	can connect 128 sensors		
Data storage	can save 1000 gas alarm records, can check the alarm records on the controller		
Online setting	the alarm parameters of bus transmitter can be set online.		
Inspection interval	100mS (continuous channel data acquisition time interval)		
Display mode	8 channels are displayed on each page, and the page turning interval can be changed.		
Communication rate	9600bps (mandatory).	Installation	wall mounted
System power supply	AC220V ± 15%、50Hz ± 1%	Page change interval	5-20s (adjustable)
Power supply of transmitter	DC24V	Working temperature	- 20 °C to 50 °C
Processor	ARM	Humidity	no more than 95%RH

APPLICATION SCENARIOS



Energy chemical industry



Municipal engineering



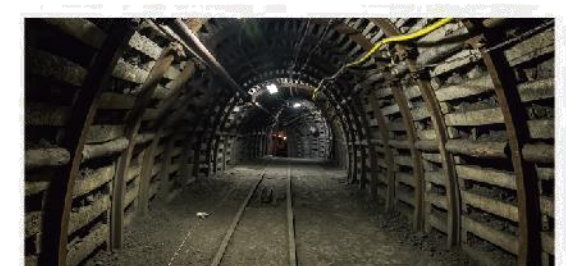
Environmental protection



Electronic appliances



Food health



Other industries

More Application

Furniture, Floor, Wallpaper, Coating, Gardening, Interior Decoration and Renovation, Dyestuff, Papermaking, Pharmacy, Health Care, Foodstuff, Antiseptic. Disinfection, Chemical Fertilizer, Resin, Adhesive, Pesticide, Raw Material, Sample, Technological Process, Livestock Farm, Refuse Processing Plant, Perm Place. Bio-pharmaceutical Plant, Green Household, Livestock Breeding, Green House Cultivating, Warehouse Logistics, Brewing And Fermentation, Agricultural Production.

CASES



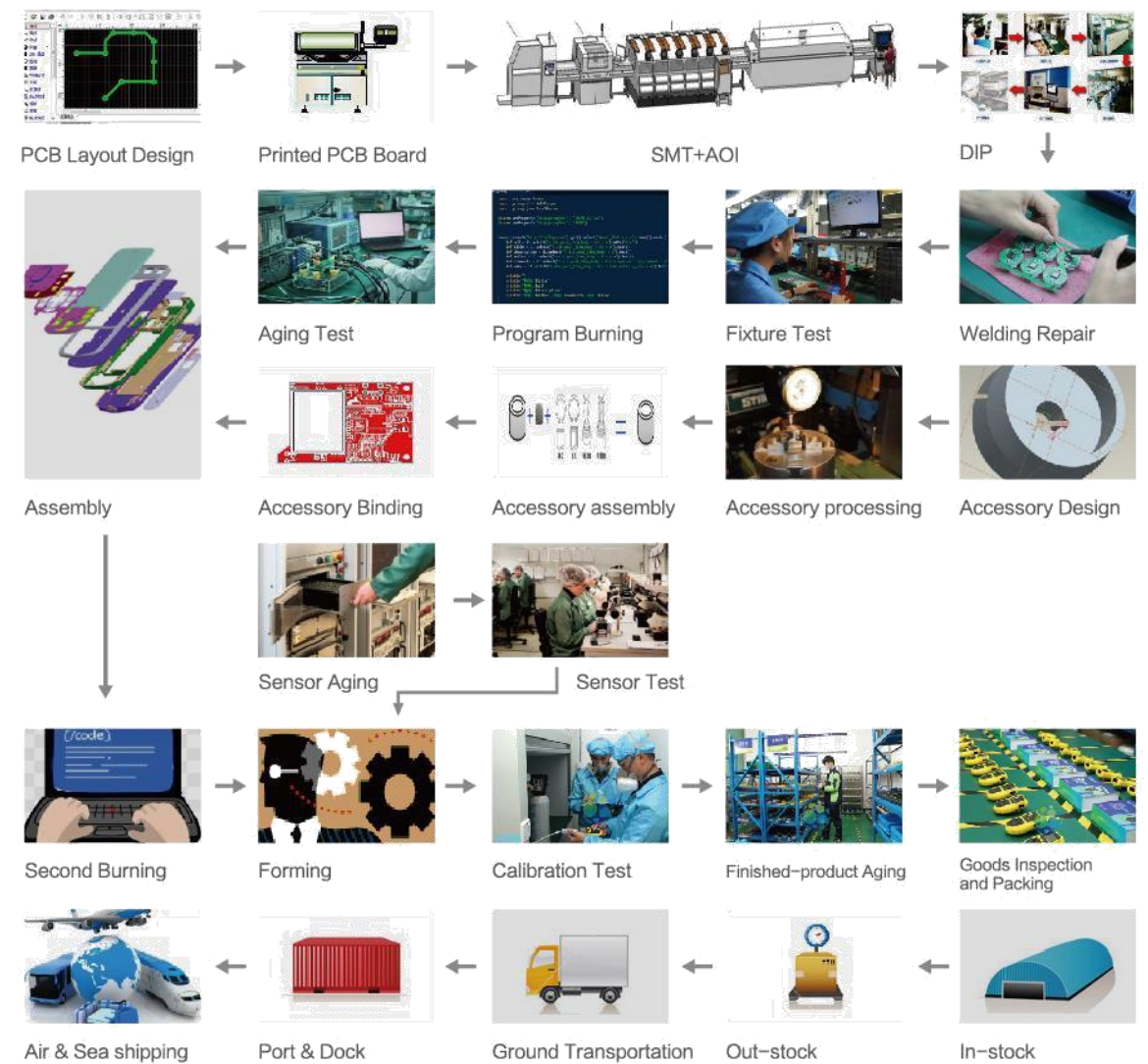
CASES



DESIGN AND RESEARCH



PRODUCTION PROCESS



MANUFACTURING



▲ Working pictures

WE INVEST 5% REVENUES INTO RESEARCH

Shenzhen YuanTe is gathered by a group of industry experts who are experienced in gas detectors R&D, manufacturing and investment. Witnessed the rapid development of gas detection industry, Shenzhen YuanTe adhere to the spirit of "Customer orientation, Integrity, learning, Innovation, contribution, embrace and drive change". Every year, 5% of Shenzhen YuanTe's income will be invested as R&D fund. To select out those new product, new technology and new service which will meet market demand is the most important task for R&D team.

QUALITY CONTROL



Quality check is the key procedure for high quality product. Shenzhen YuanTe is strict with the whole production process from raw materials into the factory to the finished product delivery. All the sensors inside and IC are imported from world top brand in Europe. Before delivery, professional QC teams will inspect piece by piece. Shenzhen YuanTe is proud of its complete, efficient QC system. Thanks for strict control of each production procedures and quick response of quality check, which benefits both Shenzhen YuanTe and its customers.

DELIVER GOODS



HONORARY CERTIFICATE



PART OF GASES AND MEASURE RANGES

Gas	Range	Other available range	Resolution
CO	0-1000ppm	0-100ppm, 0-500ppm, 0-2000ppm, 0-5000ppm, 0-10000ppm	0.1ppm, 1ppm
H2S	0-100ppm	0-10ppm, 0-50ppm, 0-500ppm, 0-1000ppm, 0-10000ppm	0.01, 0.1, 1ppm
O2	0-30%VOL	0-5%VOL, 0-25%VOL, 0-50%VOL, 0-100%VOL	0.01%VOL
EX/CH4	0-100%LEL	0-100%VOL	1%LEL, 0.01%VOL
N2	0-100%VOL		0.01%VOL
NH3	0-100ppm	0-50ppm, 0-500ppm, 0-1000ppm, 0-5000ppm	0.01, 0.1, 1ppm
CL2	0-10ppm	0-20ppm, 0-50ppm, 0-100ppm, 0-200ppm, 0-500ppm	0.01, 0.1ppm
H2	0-1000ppm	0-100%LEL, 0-2000ppm, 0-10000ppm, 0-40000ppm, 0-4%VOL	1%LEL, 1ppm
CH2O	0-10ppm	0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm	0.01, 0.1, 1ppm
O3	0-50ppm	0-1ppm, 0-10ppm, 0-20ppm, 0-100ppm, 0-500ppm, 0-1000ppm	0.01, 0.1, 1ppm
CO2	0-5000ppm	0-2000ppm, 0-10000ppm, 0-20000ppm, 0-50000ppm, 0-5%VOL, 0-10%VOL, 0-50%VOL, 0-100%VOL	1ppm, 0.01%vol
NO	0-100ppm	0-20ppm, 0-50ppm, 0-500ppm, 0-1000ppm, 0-4000ppm	0.01, 0.1, 1ppm
NO2	0-20ppm	0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 0-4000ppm	0.01, 0.1, 1ppm
NOX	0-20ppm	0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 0-4000ppm	0.01, 0.1, 1ppm
SO2	0-10ppm	0-20ppm, 0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 0-2000ppm	0.01, 0.1, 1ppm
ETO	0-10ppm	0-20ppm, 0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm	0.01, 0.1, 1ppm
PH3	0-10ppm	0-20ppm, 0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 0-5000ppm	0.01, 0.1, 1ppm
HCL	0-10ppm	0-20ppm, 0-50ppm, 0-100ppm	0.01ppm
HCN	0-10ppm	0-20ppm, 0-50ppm, 0-100ppm	0.01ppm

Gases And Measure Ranges Are Not Listed Can Be Customized

Gas	Range	Other available range	Resolution
COCL2	0-1ppm		0.01ppm
CLO2	0-10ppm	0-20ppm, 0-50ppm, 0-100ppm	0.01ppm
SIH4	0-10ppm	0-50ppm	0.01ppm
F2	0-10ppm	0-1ppm	0.01ppm
HF	0-10ppm		0.01ppm
HBr	0-10ppm	0-50ppm, 0-100ppm	0.01ppm
H2O2	0-100ppm	0-500ppm, 0-1000ppm, 0-2000ppm	0.01, 0.1, 1ppm
B2H6	0-5ppm	0-10ppm	0.01ppm
AsH3	0-1ppm	0-10ppm, 0-50ppm	0.01ppm
GeH4	0-1ppm		0.01ppm
N2H4	0-1ppm		0.01ppm
THT	0-100ppm	0-50mg/m3, 0-100mg/m3	0.01ppm, 0.01mg/m3
Br2	0-5ppm	0-10ppm, 0-50ppm	0.01ppm
C2H2	0-100ppm	0-2.3%VOL	0.01ppm, 0.01%VOL
C2H4	0-10ppm	0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 2.4%VOL	0.01, 0.1, 1ppm, 0.01%VOL
CH3OH	0-100ppm	0-50ppm, 0-500ppm, 0-1000ppm	0.01, 0.1, 1ppm
C2H5OH	0-100ppm	0-50ppm, 0-500ppm, 0-1000ppm	0.01, 0.1, 1ppm
CH4S	0-100ppm		0.01ppm
C8H8	0-10ppm	0-50ppm, 0-100ppm, 0-1000ppm, 0-5000ppm, 0-10000ppm	0.01, 0.1, 1ppm
C4H6	0-10ppm	0-50ppm, 0-100ppm, 0-1000ppm, 0-5000ppm, 0-10000ppm	0.01, 0.1, 1ppm
VOC/TVOC	0-10ppm	0-1ppm, 0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 0-5000ppm, 0-10000ppm	0.001, 0.01, 0.1, 1ppm
CH3Br	0-10ppm	0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 0-5000ppm, 0-10000ppm	0.001, 0.01, 0.1, 1ppm
C6H6	0-10ppm	0-1ppm, 0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 0-5000ppm, 0-10000ppm	0.001, 0.01, 0.1, 1ppm
C7H8	0-10ppm	0-1ppm, 0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 0-5000ppm, 0-10000ppm	0.001, 0.01, 0.1, 1ppm
C8H10	0-10ppm	0-1ppm, 0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 0-5000ppm, 0-10000ppm	0.001, 0.01, 0.1, 1ppm