SAFEGAS

Specialized in Gas Detection for 16 Years


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## Company Profile

Established in 2010, Shenzhen Yuan Te 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 line 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, Yuante becomes the influential supplier.

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 has 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, Yuante’ sproducts 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.



## Certificates

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

Certificate of Compliance

QUALITY MANAGEMENT SYSTEM CERTIFICATE

CHINA QUALITY CERTIFICATION CENTRE

Electrical Apparatus for Explosive Atmospheres
CERTIFICATE OF CONFORMITY

Electrical Apparatus for Explosive Atmospheres
CERTIFICATE OF CONFORMITY

Electrical Apparatus for Explosive Atmospheres
CERTIFICATE OF CONFORMITY

Verifica di Corrispondenza Esame UE
Allegato III
Verification of Compliance EU Examination
Annex III
n. 0B1903 14.5YTU003

Ente Certificazione Macchine Srl

中国环境保护产品认证证书

校准证书
CALIBRATION CERTIFICATE

# SKY3000
## Product Overview

SKY3000 series is a high-performance portable gas detector that can detect multiple gases (Oxygen compounds VOC, combustible gas and toxic gas)at the same time and has man down alarm function. The device has humanized operation functions such as one-key security detection, one-key storage, automatic image flipping, as well as the man down alarm function; With optional Bluetooth transmission function, allowing safety personnel to obtain real-time data and the alarm status.It has obtained internationalIECEX, ATEX explosion-proof certification and Chinese explosion-proof certification; As it passed the antistatic test, and the protection level reaches IP67; With safer product design and the module design which makes the detection faster, and the compact ergonomic designmakes the device easy carrying; The instrument is mainly working in suction mode. When the air pump fails or in special emergency situations, it can automatically switch to the diffusion sampling method, thereby improving the protection to a new Level.

The explosion-proof Grade of the SKY3000 series is Ex ia IIC T4 Ga, which is applicable to the explosive gas mixture zone 0, zone 1, and zone 2 of the factory with grades ⅡA, ⅡB, and ⅡC and temperature group T1~T4.



## Product Advantage

**Rugged and durable**

- The instrument can effectively resist a three-meter drop
- The protection level of the instrument reaches IP67
- The instrument has passed the EMC anti-static interference test and can work normally in the walkie-talkie environment

**Explosion-proof circuit design, safe and reliable**

- The instrument has got IECEX, ATEX, Chinese explosion-proof certificates and the explosion-proof level reaches Exia IICT4 Ga

**Multiple security protection**

- The man down alarm function has upgraded the safety of underground operators
- Password protection function prevents non-operators from modifying menu parameters
- With safety reminder function, sound and light vibration alarm function, let operators work without worries
- The high and low alarm latched function allows the operator to better capture the sudden change of the gas concentration value

**Simultaneous measurement of multiple gases, multiple numerical display**

- The instrument can detect 1-4 gases at the same time
- Real-time value, TWA, STEL, MAX, MIN multiple numerical display

**Large screen display, flexible detection system, multiple filtering devices**

- The screen can be automatically turned 180 degrees, which is convenient for viewing in special operating environments
- Built-in powerful sampling pump, fast detection speed
- Can be connected 20m sampling tube externally, which is convenient for long-distance or confined space detection
- Pump suction and diffusion dual use, to provide operators with more reliable protection
- With a water trap filter, it can effectively filter water, oil, dust and other impurities. It can also be used in harsh industrial environments such as coal mines and petroleum fields

**Powerful function, more user-friendly operation**

- Beautiful and friendly user interface, reasonable and easy-to-use interactive mode
- Optional Bluetooth function, data can be transmitted to the mobile phone or PC in real time
- Standard storage function, one-click data export, convenient for users to analyze
- Unique modifiable ID identification function, convenient for users to allocate and manage the vvinstrument
- A full range of automatic detection functions, automatic prompts for voltage, pump failure alarms, etc., more comfortable to use One-key security detection
- one-key open storage, automatic image flip
- Support PPM and mg/m3 gas unit switch, the concentration value is automatically converted by the system
- Support each channel sensor to restore the factory setting separately
- Support multi-language including English.Chinese and etc.

## Product specifications

| | |
|---|---|
| Sampling method | pump suction |
| Gas type | Oxygen, Combustible gas, Carbon monoxide, Hydrogen sulfide |
| Principle | Catalytic combustion,Electrochemistry |
| Measure range | 0-30%VOL、0-100%LEL、0-500PPM、0-100PPM |
| Resolution | 0.01%VOL、1%LEL、1PPM、1PPM |
| Response time | ≤30 seconds |
| Precsiion | ≤±2%F.S except for special gases |
| Language | Chinese/English ( More language can be customized) |
| Automatically test andcalibrate after power-on | Including reset, maximum value (MAX), minimum value (MIN), STEL, TWA value |
| Unit | PPM and mg/m3 can be switched and displayed by one key, and the concentration value is automatically converted by the system |
| Disaply | monochrome graphics (160 x96) ,screen can be automatically flipped |
| Backlight | The backlight time can be manually set, and will be turned on automatically when an alarm is issued |
| Data record | Can store 100,000 sets data, the storage interval is adjustable from 5 to 3600 seconds, data can be exported, with data cable |
| Alarm | 95dB buzzer (@30cm), vibration alarm and flashing red LED and alarm status indication on the screen, alarm latched; diagnostic alarm and battery undervoltage alarm, pump block alarm; man down alarm, with early warning and optional real-time remote Bluetooth notification function |
| Battery | 3.7V rechargeable lithium battery, battery capacity 2200mA |
| Working hours | More than 15 hours in continuous pumping mode |
| Charger | Travel charger with DC interface, charging time ⩾ 4 hours |
| Explosion-proof grade | IECEx: Ex ia IIC T4 Ga ATEX: Ⓔx II 1G Ex ia IIC T4 Ga |
| Certification (EU regulations) | 2004/34/UE (ATEX ) |
| Protection grade | IP67 |
| Working temperature | -20℃~+50℃ |
| Humidity | 0~90%RH ( no condensation ) |
| Environmental pressure | 86~106Kpa |
| Size | 157*84.5*59.5mm (including back clip/water trap filter) (length * width * height) |
| Weight | 365g (including battery, belt clip and filter) |



## Product configuration

**Standard accessories:**

- Gas detector 1 piece
- 12V/1A DC power adapter 1 piece
- USB cable 1 piece
- User manual 1 piece
- warranty card 1 piece
- Filter 1 piece
- Aluminum suitcase 1 piece

## Project Cases

◄ SKY3000
used in coal mines

▼ SKY3000
used in sewers and underground areas

► SKY3000
applied in Oil & Gas industries like Shell or Petros

▼ SKY3000
applied in confined spaces like warehouse, ships, factories,ect.

# SKY2000

## 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.

## 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: Ex ia IIC T4 Ga



## 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 misoperation 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: Toxic gases or combustible gases
Detection principle:Electrochemistry/Catalytic combustion/IR/PID and so on
Sampling Method:Pumping suction
Measure Range: sensor based
Resolution: sensor based
Precision:1-2%FS
Signal Output (optional function):High-speed data transmission by USB, available for data downloading and printing
Response Time:≤10S
Repeatability:≤±1%
Zero shift:≤±1%（F.S/year）
Operating language:Chinese/English
Temperature:-20℃~50℃
Explosion-Proof:Ex ia IIC T4 Ga
Alarm mode:Sound, light, vibration
Dimensions:205*75*32mm
Recovery Time:≤10S
Linearity error:≤±1%
Display:LCD dot matrix display
Gas unit:Units are switchable
Humidity:0-95%RH
Degree of protec tion:IP66
Operating time:100h（pump off）
Weight:300g

# SKY6000

## Product Overview

## Product Overview

SKY6000 is a handheld portable gas detection alarm. The instrument can be flexibly configured with single or multiple gas sensors; it adopts 3.5-inch high-definition IPS LCD color screen, 150-degree wide viewing angle, Chinese and English operation interface; three alarms of sound, light and vibration, optional fall alarm function, underground The safety of the operator is more secure; the air inlet is equipped with a waterproof and dust proof filter, which is suitable not only for daily ambient air but also for the damp and dusty monitoring environment; the built-in gas pump with adjustable ten-speed flow can be used. Customized gas detection flow for different detection environments, can be detected normally under 6m/S high-speed airflow; strong resistance to electric transients, It also has the extended function of Internet of things, long standby time of large-capacity lithium battery; high-strength engineering materials for instrument casing The unique shape design combines practical ergonomic operation.

## Product Advantages

- 3.5-inch large screen display, beautiful appearance, independent patent structure design
- Flashlight function, fall alarm function
- Multi-gas test, display mode switch
- Flexible and adjustable pump delivery system, multi-layer filter
- Powerful and more user-friendly

## Technical Specification

| | |
|---|---|
| Host size | 170*75*41mm ( H x W x D ) ( No probe and water trap filter ) |
| Host weight | About 400 grams |
| Sensor | Various principle sensors can be combined, up to 5 sensors (CO and H2S plus a combination of three sensors) |
| Pump flow | Pump flow is adjustable in ten steps, flow range: 0-500 mL/min |
| Display | 3.5 inch IPS color LCD display with resolution of 320*480 |
| Display content | Gas name or gas chemical formula, concentration data, unit of measurement, trend of gas curve, battery power, time, pump status, etc.<br>Optional: temperature, humidity, pressure, Bluetooth status, printer status, screen capture status, etc. |
| Alarm | Buzzer, searchlight and alarm status prompt on the display, low battery alarm |
| Data record | Automatic measurement data recording function, interval storage and alarm storage, can customize the recording time interval, standard storage of 100,000 history records or alarm records; optional independent 8G memory card, other capacity options. |
| Communication and data download | The TXT document for storing data can be quickly downloaded by connecting to the computer directly via USB; the TXT document can be converted into an Excel document by using the PC software. |
| Print function (optional) | Optional external Bluetooth printer |
| Print content (optional) | Real-time concentration data and historical data |
| Charger | Universal Micro-USB charging interface, 5V/2A standard charger |
| Battery | 3800mAh rechargeable lithium battery |
| Wireless network(optional) | LORA, BLUETOOTH |
| Network frequency(optional) | 398-525MHZ(LORA)、2.4GHZ BLUETOOTH |
| Wireless transmission distance (optional) | LORA (open space) up to 3500m, BLUETOOTH (Bluetooth) up to 10m |
| Language | Chinese and English bilingual switching |
| Environment humidity | 0 to 95% RH (no condensation) (moisture is too high, optional filter device) |
| Ambient temperature | Ambient temperature-20° C~+50° C (Optional flue gas sampling probe, up to 1200° C flue gas concentration) |
| Environmental pressure | 96 ~ 106Kpa |
| Explosion-proof certification | II 2G Ex ia IIC T4 Ga IP66 |
| Product Standards | Q/WX005-2017 |
| Certificate | CPA metering type approval certificate CPA2018C256-44 Explosion-proof certificate CNEx18.1829<br>CE certification / EMC certification EN 50270-2015 ISO certification 0018Q312370R0S/4403 |

# YT-1200H-S

## Product Overview

## Product Overview

YT-1200H-S series gas detector i s 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,
· 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 b e 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, H2S, CO, EX, hazardous gas, VOC, etc.
Detection principle:Electrochemistry, infrared ray, catalytic combustion, PID 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.2%F.S.
Unit:ppm、mg/m3、%VOL、%LEL
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.
Alarm recording:Interval time ranges from 10~3600 seconds are settable. (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 sensor)
Charger:travel charger with USB. Charging time: 4~6h
Explosion-proof grade:II 2G Ex ia IIC T4 Ga IP66
Protection grade:IP65
Working temperature:-20℃ ~ 50℃
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:31*83*35mm
Weight:240g

# SKY8000

## Product Overview

## Product Overview

The SKY8000 is a portable gas analysis instrument. It is widely used in industrial waste gas, air pollution source emission detection, boiler flue gas, automobile exhaust gas, indoor air analysis and other applications. The analytical instrument can flexibly detect 1-18 kinds of gases; 1-3 modules can be selected, each module corresponds to one pump, and the internal structure is modularized to take separate air intake for the disturbing gas, effectively avoiding cross interference between gases.

## Product Feature

- Exterior atmosphere, 3.5-inch high-definition color screen
- High customizability
- Flexible, multi-pump system
- Modular internal structure
- Multiple display modes coexist
- Data Storage
- Multiple security protection
- Powerful and more user-friendly

## Technical Specification

| | |
|---|---|
| Size | (H x W x D) 260 x 230 x 120 mm |
| Weight | About 3700g (host) |
| Sensor | Various principle sensors can be combined in any combination, up to 18 sensors can be combined<br>Combustible: catalytic combustion principle or infrared principle; oxygen: electrochemical principle; toxic: electrochemical principle; CO2: infrared principle; VOC: PID photoion principle; He: thermal conductivity principle. (Other principles of sensors can be customized) |
| Gas measurement range | 0~1、10、100、1000、5000、50000、100000PPM; 0-100mg/L、200mg/L; 0-100%LEL; 0-10%、20%、50%、99.999%、100%Vol (Range is optional, other ranges can be customized) |
| Resolution | 0.001 PPM (0-1 PPM); 0.01 PPM or 0.001 PPM (0~10 PPM);<br>0.1 PPM or 0.01 PPM (0~100 PPM); 1 PPM or 0.1 PPM (0~1000 PPM);<br>1 PPM (0~1000 PPM Above); 0.01 MG/L (0~200% MG/L);<br>0.1%LEL (0-100%LEL); 0.01%(0-100%VOL) |
| Precision | ≤±2%F.S. (except special gases) |
| Pump flow | Pump flow is adjustable in ten steps, flow range: 0-500 mL/Min |
| Display | 3.5-inch color display with a resolution of 320*480 |
| Display content | Gas molecular formula, concentration data, unit of measurement, gas curve trend, battery power, time, and status of Bluetooth, storage, printer, button sound, light alarm, fall, air pump, etc. |
| Alarm | Buzzer, red LED and alarm status prompt on the display, fault alarm, pump abnormal alarm, battery low battery alarm |
| Data record | Independent SD memory card, standard 8G, optional 16G, 32G, etc., automatic measurement of measurement data, customizable recording interval |
| Communication and data download | Historical real-time data, alarm data, maximum and minimum values can be directly exported through the U disk; with the PC software to download, store, analyze, and print data |
| Print function (optional) | Optional built-in thermal printer |
| Charger | Universal Mini-USB charging interface with 13V/2A dedicated charger (built-in thermal printer version) or 5V/2A universal charger |
| Battery | Large capacity rechargeable lithium battery, 7600mAh/11.1V (built-in thermal printer version) or 10000mAh/3.7V, single gas can work for more than 32 hours, 6-in-1 gas can work for more than 24 hours |
| Language | Chinese and English bilingual switching |
| Explosion-proof certification | II 2G Ex ia IIC T4 Ga IP66 |
| Product Standards | Q/WX005-2017 |
| Certificate | Measuring instrument license, ATEX explosion-proof certificate, CE certification / EMC certification, ISO certification |

( YT-95H-A )

( YT-95H )



# YT-95H

## Product Overview

## 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. Explosionproof, 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 control led alarms, PLC, DCS and other control system, can be remote monitored.
- Explosion-proof design, fast, reliable and s table.
- Explosion-proof grade: II 2G Ex db IIC T6 Gb IP65
- 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.
- Two-stage alarm with sound and light, alarm point is settable.
- 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 + stainless steel (alarm light)

## Technical Specification

Gas Detected:Toxic gases or combustible gases
Detection Principle:Electrochemistry/Catalytic combustion/IR/PID and so on
Install Method:Wall-mounted, piping type, flow-type
Measure Range:Sensor based
Resolution:Sensor based
Precision:Sensor based
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:II 2G Ex db IIC T6 Gb IP65
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-B

## Product Overview

## Product Overview

YT-95H-B-A series is with built-in pump and suction composite gas detector, which can continuously monitor various gas concentrations in environment and pipelines 24 hours on line, display concentration on site and alarm, output standard signals, and transmit data remotely. It's the first built-in pump-mounted fixed gas detector in world, with built-in constant flow and large suction pump, the detection accuracy is very high, and the reaction speed is 2.5 times faster than the diffusion model on the market. When the target detected gas is lighter than air, no need to install at high place, which can get the detection results quickly.

## Product Advantages

- Built-in constant flow and large suction pump, the detection accuracy is very high, and the reaction speed is 2.5 times faster than the diffusion model on the market. When the target detected gas is lighter than air, no need to ins tall at high height place, which can get the detection results quickly.
- 2.4-inch industrial-grade high-definition color screen, resolution is 320 * 240, 120 degrees wide view angle



- The air chamber module digitizes the analog signal, no need to disassemble the whole ma chine, just plug and unplug the air chamber part, and then return to the factory for mainte-nance calibration. It is no longer necessary to dis assemble the whole machine and return to the factory for replacement sensor like traditional models, so that the replacement of the sensor is as simple and convenient as replacing a light bulb
- Can resist strong magnetic interference. Data is guaranteed to be stable and reliable in areas with strong magnetic products or densely populated areas such as tunnels, mines and confined spaces.
- The instrument has three layers of filtering devices to efficiently filter oil, water, dust and other impurities. Even in the most demanding industrial environment, the test results can still be trusted.

## Product Functions

- Monitoring the gas concentration in the environment or in the pipeline
- Can display the gas concentration uni t, ppm, mg / m3 can s witched by one-button , the gas concentration value is automatically converted by the system
- With full software automatic verification function and zero calibration function, making gas monitoring more accurate and more reliable
- Infrared remote control function and button function are two-pronged
- Standard 4-20mA currency signal, RS485 digital signal, 1 set of relay signal output, optional 2 sets of relay signals
- Optional GPRS wireless transmission function, provide SMS reminder function
- Optional built-in wireless module to upload data to the EP A platform or other platforms, and transmit signals without distance limitation
- Optional large capacity 8G SD card storage function, storage data can be saved for more than one year
- For the harsh detection environment like high temperature, high humidity and high dust areas, there is optional pretreatment system for cooling, dehumidifying,dust removal, pro-tecting the service life of the instrument

# YT-1000H

## Product Overview

## 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.

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℃-50℃， humidity <95%

Working voltage:220V AC, 50HZ

Output signal:4-20mA (optional)

Alarm set:low alarm, high alarm

Signal transmission distance :1000m

Alarm: light and sound

Weight:2.5kg

Input signal:4-20mA

Dimension:30.5cm*21 cm*9cm

# YT-1000H-Z

## Product Overview

## 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.

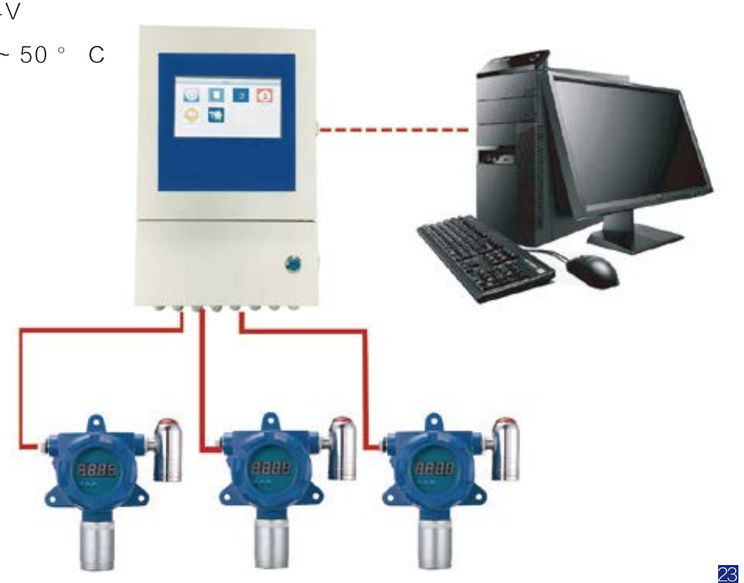
## Product Advantages

· 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 channesl ⌈ elays 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

· Capacity：Can connect 128 gas detectors
· Liquid crystal: 7 inch 800*400 resistive screen
· Processor: ARM
· Detected gas: N2, CO, H2S, CL2, NH4, SO2, H2, EX, NO, NO2, etc.
· Display mode: 8 channels per page, automatic page turning
· Inspection interval: 100ms (continuous channel data acquisition interval)
· Change interval: 5S-20S ( interval time is adjustable)
· Online setting: Alarm parameters of the bus transmitter can be set online
· Switch output: 3 channel relays and 1 common relay
· Real name input: can input the installation address of the device, Chinese characters, numbers and letters
· Data storage: More than 10,000 gas alarm records can be saved and can be viewed at any time.
· Communication interface: 1 way RS485 and bus transmitter communication; 1 way RS485 connection computer. The computer can monitor all data of the alarm host in real time.
· Communication rate: 9600bps (mandatory)
Transmission distance: The maximum distance between the detector and the controller is ≤ 1000 meters, and the maximum distance between the computer and the host is ≤1000 meters.
· Installation method: wall-mounted
· System power supply: AC220V ± 15%, 50Hz ± 1%
· Transmitter power supply: DC24V
· Working temperature: -10 ° C ~ 50 ° C
Ambient temperature: ≤95%RH



## Projects

# Production Line

| 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<br>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,<br>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 |
| 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 |