



TY-SD-30B

Portable Gas Detector

Product Overview

Adopt the original imported sensor and the new 32-bit low-power ARM processor;1.77 "TFT LCD display, clear and intuitive;Three key control,easy to operate;Chinese and English double language selection,icon and text menu display; It can send sound and light vibration alarm signal, unique duck bill back buckle, safe to carry; And with LED lighting function and breathing lamp function,the explosion-proof structure design can be used in all kinds of dangerous industrial places; Products are widely used inpetroleum and petrochemical coal mines and other places that need continuous testing of flammable and explosive toxic and harmful gases and various industries.



Portable 4-in-1 Gas Detector

Product Advantages

- Employing original imported first-class brand sensor.High speed data transmission by USB, which can download and print data.
- TFT color LCD screen, the screen clear,the gas type,unit,concentration,local time can be showed on the screen.
- LED lighting and prompt functions, in emergencies to provide light source and can indicate the instrument for you in the dark.
- Support Chinese and English operation, easy to shift.
- Explosion-proof certification,Explosion-proof grade:Ex ib IIB T3 Gb

Functions

- 1000 alarm record and query.
- Support icon text double menu interface.
- Sound, light, vibration triple alarm function.
- Trend chart function display, check the recent data trends.
- One press to restore factory setting,freefromthebotherofmis-operation.
- Monitor the specified gas concentration inenvironment and enclosed space and alarmWith.
- Self-callbration and zero callbration functlons,makes the detection more accurate and reliable.
- Special engineering plastics housing of high intensity,anti-skipping,water-proof,dust-proof, explosion-proof.

Technical Specification

Detecting Gas	EX , CO , O2 , H2S		
Detection Principle	Electrochemical, Catalytic combustion		
Display Type	TFT color liquid crystal screen		
Batiery Capacity	1300mA lithium batiery, nominal voltage: 3.7VDC		
Working Time	> 8 hours (at room temperature, no alarm, Backlight off)		
Work Environment	Temperature range:-10℃ ~ 50℃ Humidity range: 10 ~ 95%RH (no condensation)		
Sampling Mode	Diffusion type	Response Time	T90 < 30s
Pressure Range	86 ~ 106kPa	Preheating Time	90S
Charger	USB Powered DC5V	Accuracy	± 3% F.S.
Protection Level	IP54	Main Material	PC+TPU (anti-static)
Product Size	123.88*65*50.7mm(L*W*H)	Product Weight	About 182g
* For custom gases, please contact us for a selection sheet			



Product Overview

Using 32-bit microprocessor, 3.5-inch TFT color LCD display, Six keys operation, friendly and convenient human-computer interaction. Sound and light alarm, vibration alarm, fall alarm and display alarm in a variety of alarm combinations. It has the characteristics of stable and reliable system, rich display content, clear and beautiful, convenient and simple operation and fast response. Multiple gases can be detected at the same time, and the gas types can be flexibly configured according to customer needs.

Widely used in: petroleum and petrochemical, metallurgy, chemical, municipal, biopharmaceutical, home environmental protection, electric power, sewage treatment, etc.



Portable 6-in-1 Gas Detector

Product Advantages

- With back buckle and lanyard, easy to carry.
- Pump suction sampling, sampling distance of more than 10 meters.
- Support bilingual switch between Chinese and English, display style switch.
- Smart sensors, flexible change, most can detect six kinds of gas at the same time.
- Six gases at the same time display, single display, curve of three kinds of interface can be switched.
- 3.5 -inch color LCD screen, display in both English and Chinese, the gas concentration unit support PPM, PPB, PPH, VOL %, % LEL, mg/m3, ug/m3.

Functions

- Computer export data, check the curve.
- Calibration time remind of sensor and sensor life remind.
- Support bluetooth communication, optional bluetooth printer.
- Fall alarm function, prevention workers poisoning faint signal alarm calls.
- Gas path blockage detection alarm, effectively protect the getter pump and sensors.
- Modular battery, can replace the battery, external physical interface only charging interface.
- Built-in water dust filter and temperature compensation function to ensure accuracy of measurement.
- Standard capacity 80,000 data items support local view, deletion or data export, support upper computer export Data.

Technical Specification

Detecting Gas	Can accurately detect six kinds of gases such as NH3, H2S and O2 at the same time		
Detection Principle	Catalytic combustion,infrared detection,electrochemistry,photoion,PID,thermal conductivity		
Display Type	3.5 inch TFT color LCD screen display		
Batiery Capacity	7500mAh lithium batiery, nominal voltage: 3.7VDC		
Working Time	> 10 hours (at room temperature, no alarm)		
Work Environment	Temperature range:-20℃ ~ 50℃ Humidity range: 10 ~ 95%RH (no condensation)		
Detection Method	Pump suction type	Response Time	T90 < 30s
Pressure Range	86 ~ 106kPa	Repeatability	±2%
Charger	USB powered DC5V	Accuracy	≤± 3% F.S.
Protection Level	IP54	Main Material	ABS+PC
Product Size	206.5*70*36mm(L*W*H)	Product Weight	≈0.28Kg (not including sensor)
* For custom gases, please contact us for a selection sheet			



TY-SD-20B
Pump Gas Detector

Product Overview

Adopt aluminum alloy shell, excellent performance and indicators in all aspects, using new original imported sensors and low-power ARM processor; independent high-precision imported ADC analog-to-digital conversion chip, unique signal processing algorithm, higher precision and more stable measurement results; 2.5-inch LCD dot matrix display, readings are intuitive and generous; process and quality control strictly.

Products are widely used in, metallurgy, petroleum and petrochemical, municipal, chemical, biopharmaceutical, home environmental protection, school laboratory, automobile exhaust gas and other fields.



Portable Pump-Suction Gas Detector

Product Advantages

- Original imported high-performance sensors, long service life.
- LCD dot matrix display, support Chinese and English operation.
- %VOL, %LEL, mg/m3, ppm, pph, ppb are available in various units.
- Ultra-high buzzer alarm sound,higher and lower alarm values are settable.
- Using aluminum alloy shell, excellent performance and all aspects of indicators , strong and durable, exquisite and comfortable in touching.
- The circuit adopts 4 layers of wiring, which is stronger for weak signal and anti-interference.
- Elegant and exquisite aluminum alloy packaging suitcase.

Functions

- Can store 100,000 sets of data, Support English and Chinese switch.
- Built-in high-performance air pump, stable flow rate, switchable control.
- 5 navigation buttons, friendly user interface, easy to operate.
- Intelligent algorithm, multi-point calibration and temperature compensation, more accurate measurement results.
- 2600mAh large capacity lithium battery, continuous work time more than 20 hours.
- Sound and light alarm, detect the concentration exceeds the standard when the timely alarm prompt, to protect personal safety.
- Two-color LED alarm light, voice ≥75dB@25cm

Technical Specification

Detecting Gas	Combustible gas, toxic gas, oxygen, VOC (optional)		
Detection Principle	Catalytic combustion type, electrochemical type, photoionic type, thermal conductivity type, infrared NDIR type		
Display Type	2.5" dot matrix LCD display		
Batiery Capacity	Rechargeable lithium batiery 2600mAh		
Working Time	≥12 hours (room temperature electrochemical sensor)		
Work Environment	Temperature range:-20℃ ~ 50℃ Humidity range: 15 ~ 95%RH (no condensation)		
Sampling Mode	Pump suction type	Response Time	T90 < 30s
Pressure Range	86 ~ 106kPa	Repeatability	≤±2%
Charger	USB powered DC5V	Measurement Error	≤± 3% F.S.
Protection Level	IP54	Main Material	Aluminum alloy
Product Size	123.88*65*50.7mm(L*W*H)	Product Weight	About 0.16Kg

* For custom gases, please contact us for a selection sheet



TY-SD-10B
On-Line Gas Detector

Product Overview

TY-SD-10B series are made of high performance gas-sensitive components and micro-controller technology, combined with excellent SMD process, with good repeatability and temperature and humidity characteristics as well as long service life, easy to operate, etc. They are suitable for detecting gas concentration in industrial environment.

The detector can realize real-time concentration display on the computer through the gas alarm controller and monitoring management software, and can also transmit real-time monitoring data and alarm status to the safety control center through the optional wireless module.

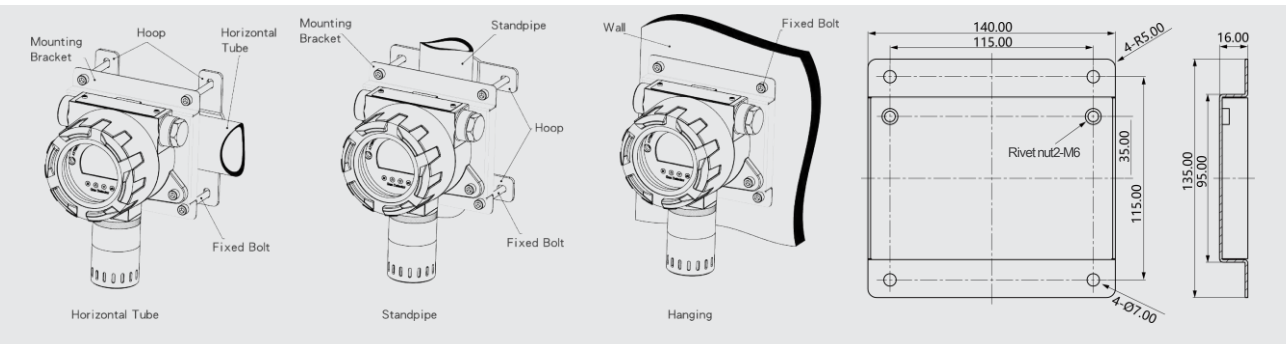


Online Gas Detector

Product Advantages

- Four high bright digital tube LED display.
- Intelligent sensor, modular design, easy maintenance.
- Multi-point calibration + temperature compensation, more accurate data.
- One key to restore factory settings to prevent misoperation.
- 4~20mA, RS485, wireless output signal optional, Triple waterproof design
- Three indicators for power, fault and alarm.
- Installation: wall - mounted, horizontal pipe, vertical pipe.
- Infrared remote control operation, avoiding open cover operation on dangerous occasions.

Product Advantages



Technical Specification

Detecting Gas	Methane, hydrogen sulfide, carbon monoxide, oxygen (optional)		
Detection Principle	Catalytic combustion type, electrochemical type, light ion type, thermal conductivity type, infrared NDIR type		
Display Type	Four-digit LED high brightness digital tube		
Power Supply	24VDC (normal working voltage range: 10 ~ 30VDC)		
Power Consumption	< 1.5W(toxic gas) ; < 2.5W(combustible gas)		
Output Signal	Three-wire 4 ~ 20mA or four-wire RS485 or both output at the same time ; Two passive relay (24VDC 2A)		
Work Environment	Temperature range:-20℃ ~ 50℃(toxic gas)-40℃ ~ 70℃(combustible gas) Humidity range: 10 ~ 95%RH (no condensation)		
Sampling Mode	Diffusion type	Response Time	T90 < 30s(combustible gas)
Pressure Range	86 ~ 106kPa	Accuracy	± 3% F.S.
Protection Level	IP66	Main Material	Aluminum alloy
Product Size	185*137.2*90.7mm(L*W*H)	Product Weight	About 1.6Kg
* For custom gases, please contact us for a selection sheet			



Product Overview

On-line multi-parameter gas detector can monitor 4 kinds of gas online at the same time, the detector adopts high-performance gas sensitive components and microcontroller technology, combined with sophisticated SMD process manufacturing, has good repeatability and temperature and humidity characteristics and long service life, easy operation and other advantages, suitable for detecting gas concentration in industrial environment.



Multi-Parameter Fixed Gas Detector

Product Advantages

- 1. Can monitor 4 gases at the same time
- 2. Explosion-proof certification: Exd IIC T6 Gb (combustible gas) Exd ib IIC T6 Gb (toxic gas);
- 3.OLED instrument panel design, intuitive display;
- 4. Intelligent sensor, modular design, easy maintenance;
- 5. Multi-point calibration + temperature compensation, more accurate data;
- 6. One-key restore factory Settings to prevent misoperation;
- 7. Triple waterproof design;
- 8.4 ~ 20mA, RS485 output signal optional;
- 9. Two sets of passive relay output;
- 10. Infrared remote control operation, dangerous occasions to avoid open cover operation;

Technical Specification

Model No.	TY-10H
Detecting gas	Combustible gases, toxic gases, VOCs
Principle of detection	Catalytic combustion type, electrochemical type, photoion type, thermal conductivity type, infrared NDIR type
Accuracy	±3%F.S
Repeatability	Plus or minus 2%
Response time	T90 < 30S (combustible gas)
Power supply	24VDC (normal operating voltage range: 10 ~ 30VDC)
Power consumption	< 1.5W(toxic gas) < 2.5W(flammable gas)
Output signal	Three-wire system 4 ~ 20mA or four-wire system RS485 or both output Two sets of passive relays (24VDC 2A)
Body material	Aluminum alloy
Weight	About 2.1kg
Measuring inch	209*160*86mm (L*W*H)
Mounting method	Wall mounted, cross pipe, stand pipe
Level of protection	IP66
Environment of use	Temperature range: -20℃ ~ 50℃(toxic gas) -40℃ ~ 70℃(combustible gas) Humidity range: 10 ~ 95%RH (no condensation) Pressure range: 86 ~ 106Kpa



Product Overview

Laser gas PTZ telemeter is a new generation of gas detection equipment based on laser absorption spectroscopy technology (TDLAS). It is fixed on a vertical pole and automatically scans 360° to measure the gas concentration of multiple preset positions in various places without contact. Combined with real-time video images, it can form a 24-hour online, full-space, all-round gas leakage monitoring system in the target area, and locate the location of the leak. It can be widely used in oil, chemical, natural gas, mines, power plants and other workplaces that need to monitor gas leakage. It is suitable for explosive gas environment of zone 1, Zone 2 and explosive dust environment of A20, A21, A22 zone.



Laser Gas PTZ telemeter

Product Advantages

- 1.Strong stability
Compared with the traditional technology, it has a large range and will not occur oxidation, poisoning, saturation and other failure conditions, and is not interfered by other gases.
- 2.Wide coverage
Horizontal 360° and pitch $\pm 90^\circ$ rotation to achieve full space without dead Angle monitoring.
- 3.Real-time display
The system integrates HD cameras to quickly determine the leak situation on site in real time.
- 4.Minimal maintenance
Equipment built-in reference gas pool, the system regularly self-verification, self-calibration, reduce management and maintenance work.
- 5.Safe and reliable
Using flameproof design, with wide voltage working range and surge prevention function.
- 6.Strong expandability
Using standard communication protocol, it can easily communicate with third-party systems such as host computer, control system and auxiliary equipment.

Technical Specification

Model No.	TY- DYTF-02
Performance indicators	
Detecting gas	Methane (CH ₄), propane (CH ₃), ammonia (NH ₃), ethylene (CH ₂) Carbon monoxide (CO), hydrogen chloride (HCl)
Principle of detection	Tunable Laser Absorption Spectroscopy (TDLAS)
Detection distance	50/100/150 m
Detection range	(0~99999)ppm·m
Detection error	$\leq \pm 5\%$ or less
Response time	0.1 s or less
PTZ parameters	
Shell material	Standard 304 stainless steel (316L optional)
Horizontal Angle	360° continuous
Vertical Angle	90° ~ 90°
Horizontal RPM	(0.1 to 40)° /S Smooth variable speed rotation
Vertical speed	(0.1 to 30)° /S Smooth variable speed rotation
Preset site	128
Turning accuracy	0.1° or less
Interface size	G3/4 external thread
Other indicators	
Input voltage	DC24V
Maximum current	1A
Ambient temperature	- 40 ~ 60 °C
Ambient humidity	0 to 95%RH(non-condensing)
Communication method	RS485\RJ45
Communication protocol	Modbus RTU16

APPLICATION SCENARIOS



More Applications

Petroleum And Petrochemical, Metallurgy, Chemical, Coking, Municipal, Biopharmaceutical, Home Environmental Protection, School Laboratory, Automobile Exhaust, Electric Power, Ships, Sewage Treatment And Other Places That Need Continuous Detection Of Flammable And Explosive, Toxic And Harmful Gases, Dyestuff, Green House Cultivating, Warehouse Logistics, Brewing And Fermentation, Agricultural Production, Livestock Breeding, Antiseptic, Refuse Processing Plant, Foodstuff, Chemical Fertilizer, Resin, Adhesive.



Mining



Metallurgical



Oil Mining



Pollution



Chemical



Chemical Plants



Oil & Petrochemical



Mining Industry



Underground Pipe Corridor



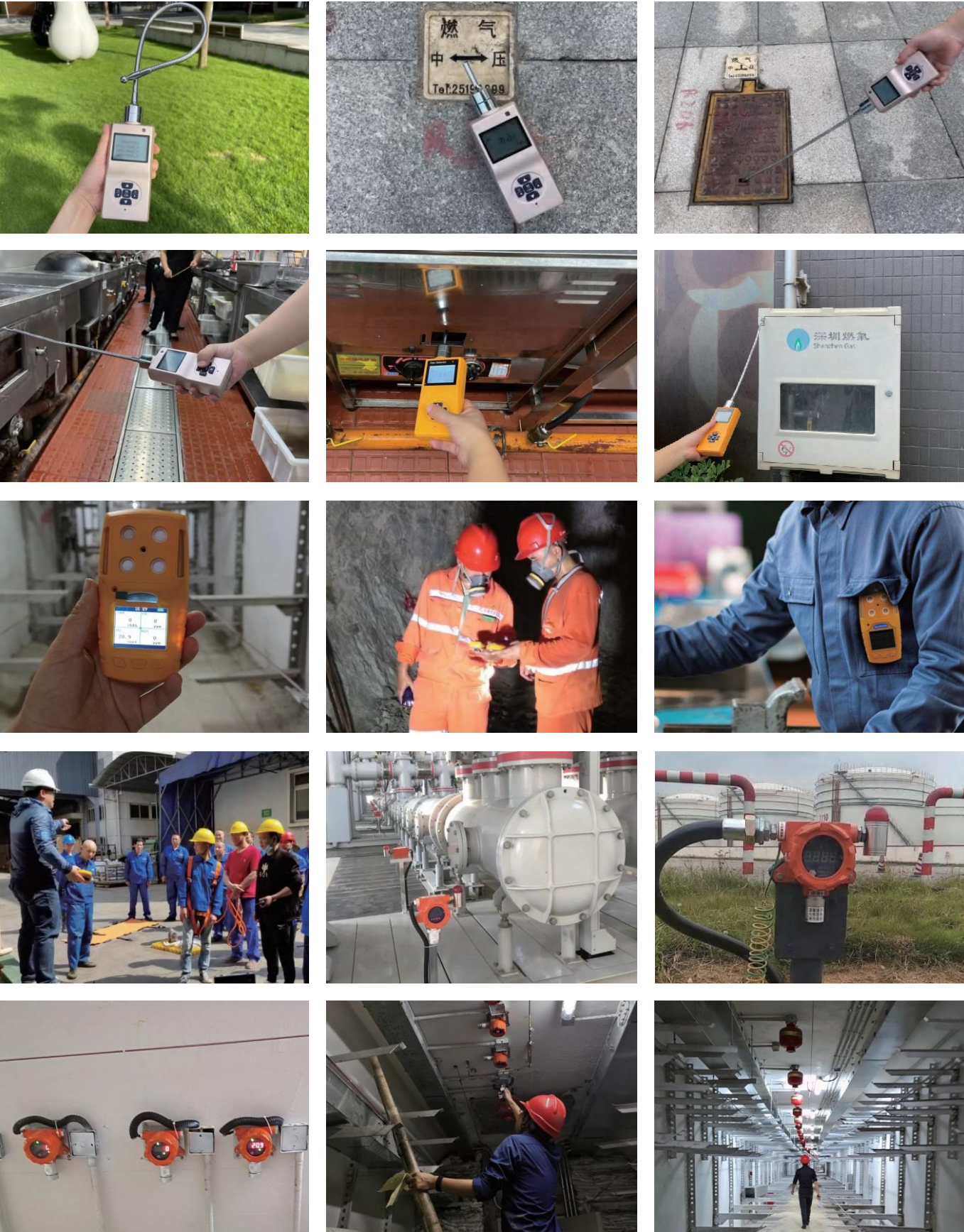
Wastewater Treatment



Chemical Workshop

Case Show

Scene Application Show



Production

Production & Commissioning



COMMON GASES AND MEASURE RANGES

Gas Name	Detection Principle	Range	Resolution
EX	Catalytic Combustion	0-100%LEL	0.1%LEL, 1%LEL
O2	Electrochemical	0-5%/10%/25%/30%VOL	0.1%VOL, 1%VOL
CO	Electrochemical	0-500/0-2000ppm	0.1ppm, 1ppm
H2S	Electrochemical	0-100/0-1000ppm	0.1ppm, 1ppm
SO2	Electrochemical	0-20/200/500/1000ppm	0.1ppm, 1ppm
H2	Electrochemical	0-5/0-10/0-40000ppm	0.1ppm, 1ppm
NO2	Electrochemical	0-20ppm	0.1ppm, 1ppm
HCN	Electrochemical	0-50ppm	0.1ppm, 1ppm
NH3	Electrochemical	0-100/0-200/0-500ppm	0.1ppm, 1ppm
O3	Electrochemical	0-10/0-100ppm	0.1ppm, 1ppm
CO2	Infrared (SF)	0-1%/2%/5%10%/20%VOL	0.01%VOL, 0.1%VOL, 1%VOL
VOC	PID-AH	0-10/50/10000ppm	0.1ppm, 1ppm
CH4	Infrared (JL)	0-5%/0-100%VOL	0.1%VOL, 1%VOL
CH2O	Electrochemical (GD)	0-5/10/50/100//500/1000ppm	0.1ppm, 1ppm
ClO2	Electrochemical	0-1/0-20/0-50ppm	0.01ppm, 0.1ppm, 1ppm
HF	Electrochemical	0-10/50ppm	0.1ppm, 1ppm
PH3	Electrochemical	0-20/0-1000ppm	0.1ppm, 1ppm
Cl2	Electrochemical	0-5/10/20/50/100/200ppm	0.01ppm, 0.1ppm, 1ppm
NO	Electrochemical	0-50/100/1000/2000ppm	0.01ppm, 0.1ppm, 1ppm
N2	Electrochemical	0-30%VOL	1%VOL
HCl	Electrochemical	0-30ppm	0.1ppm, 1ppm

Gases and Measure Ranges Not Listed
Can Be Customized

Gas Name	Detection Principle	Range	Resolution
F2	Electrochemical (CT)	0-1ppm	1ppm
Ar	Electrochemical	0-30%VOL	1%VOL
ETO	Electrochemical	0-50/100/200/500ppm	0.01ppm, 0.1ppm, 1ppm
HCN	Electrochemical	0-50ppm	0.1ppm
SiH4	Electrochemical (CT)	0-50ppm	1ppm
C4H8S	Electrochemical (SS)	0-50mg/m3	0.1mg/m3
COCl2	Electrochemical	0-1ppm	0.1ppm
ClO2	Electrochemical	0-10/20/50/100ppm	0.1ppm, 1ppm
HBr	Electrochemical	0-10/50/100ppm	0.1ppm
H2O2	Electrochemical	0-100/500/1000/2000ppm	0.01ppm, 0.1ppm, 1ppm
B2H6	Electrochemical	0-5/0-10ppm	0.01ppm
AsH3	Electrochemical	0-1/10/50ppm	0.01ppm, 0.1ppm
THT	Electrochemical	0-100ppm, 0-50mg/m3	0.01ppm, 0.01mg/m3
Br2	Electrochemical	0-5/10/50ppm	0.01ppm, 0.1ppm
C2H4	Electrochemical	0-50/100/500/1000ppm	0.01ppm, 0.1ppm, 1ppm
C2H2	Electrochemical	0-100ppm	0.01ppm
CH3OH	Electrochemical	0-50/100/500/1000ppm	0.01ppm, 0.1ppm, 1ppm
C2H5OH	Electrochemical	0-5/10/20/50/1000ppm	0.01ppm, 0.1ppm, 1ppm
C8H8	Electrochemical	0-50/100/1000/5000ppm	0.01ppm, 0.1ppm, 1ppm
C4H6	Electrochemical	0-50/100/1000/5000ppm	0.01ppm, 0.1ppm, 1ppm
* For other custom gas options, please contact us			