

Gas Detector Catalog



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Any questions, please contact us...

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Product Overview

ATO-GAS 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.



ATO-GAS 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 guickly.
- 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.

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).		
Sampling method	Pumping suction, flow rate can up to 1L/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	≤10S	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	Exib CT4 Gb	Degree of protection	IP66
Alarm mode	Sound, light, vibration	Operating time	100h (pump off)
Dimensions	205*75*32mm	Weight	300g













Portable Multi Gas Detector

Product Overview

ATO-GAS-S4 series gas detector is a portable instrument which can be used in municipal, tunnels, petrochemical industry and other restricted spaces.

ATO-GAS-S4 series gas detector can detect up to four gases at the same time. It can fuse electrochemis—try, 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 instru—ment.



ATO-GAS-S4

Portable Multi Gas Detector

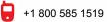
Product Advantages

- 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 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.
- Elegant and exquisite aluminum alloy packaging suitcase.



Gases	O2, N2, CO2, EX, hazardous gas, ect.		
Measure range	Range is optional, according to the detected gas		
Resolution	0.01ppm, 0.1ppm, 1ppm		
Sampling method	Diffusion (add external sampl	ing pump if necessary)	
Display	Monochrome dot matrix 128*	128 LCD graphic display.	
Backlight	Time of backlight is settable,	when alarm the backlight wi	ill be auto on.
Direct reading	Gas molecular formula, concen	tration unit, measured value,	time, battery, alarm state, data record status
Data recording	Storage capacity of over one hundred thousand sets, it 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	Exia II CT3	Unit	ppm, mg/m3, %VOL
Protection grade	IP66	Housing Material	ABS+PC
Working temperature	-20℃-50℃	Language	Chinese/English
Charger	Travel charger with USB.	Dimension	155*78*35mm (length*width*height)
Detection principle	Electrochemistry	Weight	300 g











ATO-GAS-AM4 Multi Gas Analyzer

Product Overview

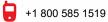
ATO-GAS-AM4 series gas analyzer is a data collector which can quickly acquire and analyze gas con-centration components in scientific research, university, environmental monitoring, smoke emission and other complex working environment. SKY8000 gas analyzer can detect up to 18 gases simultaneously.

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.

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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 1-18 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).

Size	260*230*120mm (H x W x D)		
Weight	3700g		
Battery	Large capacity rechargeable lithium battery,5400mAh/11.1V (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	IP65	Explosion-proof	Ex ic IIC T3 Gc
Pressure measurement	0.5-2.0 bar (optional)	Warranty	12 months





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













ATO-GAS-AM4 Application in municipal engineering, construction site, etc.

Ordering Information

tunnel engineering, etc.

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 (0~200%mg/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 blue ~ tooth 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 transmis- slon distance	Bluetooth is less than 10m, and the ZigBee outdoor single point is less than 500m.		







ATO-GAS-A

Online Gas Detector With Display





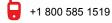
ATO-GAS-A
Online Gas Detector With Display

Product Overview

ATO-GAS-A series gas detector is a kind of wall mounted type gas detector monitoring gas concentration in different kinds of situations or pipelines 24h continuously. Using world first brand sensors and advanced micro-process technology, with data display, the detector features fast response, high precision and good stability. Powered by 24V DC, with 4-20mA, RS485, or relay signal output, and explosion proof, it is 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 | 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

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°C ~ 50°C	
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	≤1.6ka	

ATO-GAS-A

Online Gas Detector with Alarm Light





ATO-GAS-A Online Gas Alarm

Product Overview

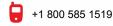
ATO-GAS-A series gas detector (with alarm light) is a kind of wall mounted type gas detector monitoring gas concentration in different kinds of situations or pipelines 24h continuously.

Using world first brand sensors, and advanced micro-process technology, with data display and high/low alarm, the detector features fast response, high precision and good stability. Powered by 24V DC, with 4-20mA, RS485, or relay signal output, and explosion proof, it is 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: 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

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	≤1.6kq	

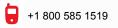
COMMON GASES AND MEASURE RANGES

Gas	Range	Other available range	Resolution
со	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











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* Gases and Measure Ranges 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
СНЗОН	0-10 0 ppm	0-50ppm, 0-500ppm, 0-1000ppm	0.01, 0.1, 1ppm
С2Н5ОН	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

Global Shipping

ATO

APPLICATION SCENARIOS



More Applications

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.











metallurgical

medical

Energy chemical industry



Municipal engineering



Environmental protection



Electronic appliances



Food health



Other industries