



**SAFEGAS**  
Specialized in Gas Detection for 16 Years



## SKY3000-R

Portable gas detector



**SKY3000** —  
Portable gas detector

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 international IECEx, 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 design makes the device easy carrying; The instrument is mainly working in suction mode.

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.

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### 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 instrument
- 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/m<sup>3</sup> 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                                        | CH <sub>4</sub> ,O <sub>2</sub> ,H <sub>2</sub> S,NH <sub>3</sub>                                                                                                                                                                                                                       |
| Principle                                       | Electrochemistry(O <sub>2</sub> ,H <sub>2</sub> S,NH <sub>3</sub> ),Infrared ray(CH <sub>4</sub> )                                                                                                                                                                                      |
| Measure range                                   | CH <sub>4</sub> :0-100%VOL,O <sub>2</sub> :0-30%VOL,H <sub>2</sub> S:0-10ppm,NH <sub>3</sub> : 0-200ppm                                                                                                                                                                                 |
| Resolution                                      | 0.1%VOL(O <sub>2</sub> ),0.1ppm(NH <sub>3</sub> ,H <sub>2</sub> S),0.01%VOL(CH <sub>4</sub> )                                                                                                                                                                                           |
| Response time                                   | ≤30 seconds                                                                                                                                                                                                                                                                             |
| Precsiion                                       | ≤ ±2%F.S except for special gases                                                                                                                                                                                                                                                       |
| Language                                        | Chinese/English ( More language can be customized)                                                                                                                                                                                                                                      |
| Automatically test and calibrate after power-on | Including reset, maximum value (MAX), minimum value (MIN), STEL, TWA value                                                                                                                                                                                                              |
| Unit                                            | PPM and mg/m <sup>3</sup> 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:  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)                                                                                           |

**Normal gas types and paramaters( Other gases are not listed can be customized )**

| Detected gas              | measure range | Optional ranges | Resolution       | Response time |
|---------------------------|---------------|-----------------|------------------|---------------|
| Flammable gas ( EX )      | 0-100%LEL     | 0-100%VOL       | 0.1%LEL/0.1%VOL  | ≤10S          |
| Oxygen ( O2 )             | 0-30%VOL      | 0-25%VOL        | 0.01%VOL/0.1%VOL | ≤10S          |
| Carbon monoxide ( CO )    | 0-1000ppm     | 0-2000ppm       | 0.1ppm/1ppm      | ≤10S          |
| Hydrogen sulfide ( H2S )  | 0-100ppm      | 0-1000ppm       | 0.01ppm/0.1ppm   | ≤10S          |
| Ammonia ( NH3 )           | 0-100ppm      | 0-200ppm        | 0.01ppm/0.1ppm   | ≤10S          |
| Chlorine ( CL2 )          | 0-10ppm       | 0-100ppm        | 0.01ppm/0.1ppm   | ≤10S          |
| Hydrogen Chloride ( HCL ) | 0-20ppm       | 0-100ppm        | 0.01ppm/0.1ppm   | ≤10S          |
| Nitric oxide ( NO )       | 0-100ppm      | 0-250ppm        | 0.01ppm/0.1ppm   | ≤10S          |
| Nitrogen dioxide ( NO2 )  | 0-20ppm       | 0-100ppm        | 0.01ppm/0.1ppm   | ≤10S          |
| formaldehyde ( CH2O )     | 0-10ppm       | 0-50ppm         | 0.01ppm/0.1ppm   | ≤10S          |
| Ozone ( O3 )              | 0-10ppm       | 0-100ppm        | 0.01ppm/0.1ppm   | ≤10S          |
| Carbon dioxide ( CO2 )    | 0-2000ppm     | 0-100%VOL       | 1ppm/0.01%VOL    | ≤10S          |

**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





## Application



▲ Petrochemical & Chemical Industry



▲ Municipal Engineering & Utilities



▲ Agricultural & Environmental Protection



▲ Electronic



▲ Food & Pharmaceutical Industry



▲ Other Industries

## 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.



## More Application

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- 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.

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