

OC-1000 Multi Gas and Dust particle detector



Description:

OC-1000 portable multi gas detector with the inner pump to detect the gas composite concentration data in different working place. Our engineer design it with 6 sensors at most: one is default of the Temperature & Humidity sensor, so if users only need to detect the gas, it can detect 5 gas type at most, users can choose 2 gas, or 3 gas, or 4gas, according to different usage; if need to detect the particle and dust, it can add the sensor for dust, then it can add 3 gas type sensor at most. The gas composite will be according to the users demands.

Features:

Semiconductor technology of ultra low power 32 bit microprocessor, 24 bit ADC acquisition chip, so with the high accuracy.

3.5 inch IPS industrial grade color screen.

Support Chinese or English operation menu.

Gas concentration unit available for %LEL , PPM, %VOL, mg/m3.

For 1~5 gas detecting, gas type all be customized, supporting the PM2.5 particle counter sensor, and humidity sensor, etc.

Internal sampling pump for suction, the suction strength is adjustable in different level.

Explosion proof grade is Exia IICT4.



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Function:

Inspect the gas concentration and alarm when it reaches preset alarm level.
 With auto-test and data recover function.
 One-key operation to restore to factory default setting.
 Temperature and pressure compensation.
 Adjustable two-stage audible-visual alarm threshold value.
 Powered by rechargeable lithium battery with big capacity.
 Working under the micro negative pressure is available.
 Overload protection, over charge protection, anti static interference, anti magnetic interference, etc.

Technical Parameter:

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|------------------------------------|--|-----------------------|----------------------------|
| Gas type | Combustible gas, Toxic gas, Oxygen, Carbon Dioxide, TVOC, etc. | | |
| Working principle | Catalytic combustion sensor for Combustible gas; Electrochemical sensor for Toxic gas and Oxygen gas; NDIR sensor for CO2, CH4, SF6; PID sensor for TVOC gas. | | |
| Particle size | Optional particle sensor of the channels: 0.5um, 1.0um, 2.5um, 10um | | |
| Particle testing mode | Quantity testing(PC/L) and Quality testing(ug/m3) | | |
| Sampling mode | Pump-suction sampling | | |
| Measuring range | According to different gas type | | |
| Resolution | According to different gas type | | |
| Precision | ±3%F.S (or customized) | | |
| Dust Temp & Humidity testing range | Temperature: -40~120°C; Humidity: 0~100% RH | | |
| Data storage function | With the capacity of the 100000 group of measuring data, by the software could be transmitted to the computer. | | |
| Printer | Optional mini-printer. | | |
| Response time | ≤20s(T90) | Recovery time | ≤20s |
| Repeatability | ≤±1% | Linearity | ≤±1% |
| Zero drift | ≤±1%(F.S/year) | Concentration unit | ppm, %vol, %lel, mg/m3 |
| Display | LCD display the Date, time, Temp& humidity, Gas concentration data, unit, status for the pump, alarm and battery. | | |
| Operation language | Chinese/English | Alarm mode | Audible, visual, vibration |
| Gas Working temperature | -30~60°C | Working humidity | 0-95%RH(non-condensing) |
| Working pressure | 70Kpa ~ 200Kpa | Explosion-proof grade | Ex ia IIC T4 Ga |



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|--------------------|--|----------------|--------|
| Protection grade | IP65 | Shell material | ABS+PC |
| Dimensions | 220*88*55mm | Weight | 0.5KG |
| Standard accessory | Particle filter, box, instruction, USB charger , data line, calibration cap. | | |

Applications:

The Portable multi gas detector with the common applications include chemical industry, petroleum, gas station, metallurgy, agriculture, biology pharmaceuticals, power, lab research and other industry environment where need to inspect combustibile or toxic gas concentration.

