







PORTABLE SINGLE GAS DETECTOR

The AGH5100 & AGH5100M portable gas detector can detect toxic gases in the ambient environment. The product is fully gripped, compact, and a built-in advanced electrochemical sensor for a fast response. The double-layered body design suitable for harsh environments and single-button operation greatly reduces the possibility of misoperation.

Features

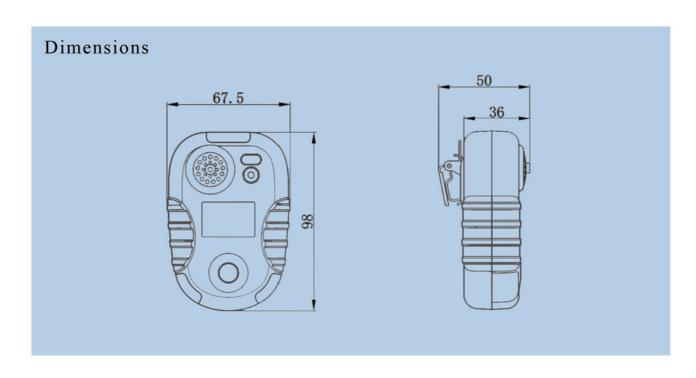
- Compact and light, it is easy to wear in a helmet, belt, etc.
- PC+TPU double-layer body, wear-resistant and drop-resistant, suitable for harsh conditions.
- Specially designed PCB board, effective against electromagnetic interference, stable work.
- High-brightness LCD display, sound, light, vibration alarm method.
- Built-in high-performance lithium-ion battery for over 20 days of operation.
- One-button design, easy to use, reducing the possibility of misoperation.
- Compatible with a external sampling pump for confined space usage.



Specifications

| toxic gas, O2 O2/CO/H2S/SO2 | Description | Specifications | AGH5100 | AGH5100M |
|---|--------------------|--------------------------------------|---------|----------|
| pass detected O2/CO/H2S/SO2 - • • • • • • • • • • • • • • • • • • | Function | | | |
| See QUICK-SELECTION-TABLE | gas detected | toxic gas, O2 | • | |
| Process Proc | gas detected | O2/CO/H2S/SO2 | - | • |
| securacy* \(\leq \frac{\securacy}{\securacy} \) \(\leq \frac{\securacy}{\securacy} \) \(\leq \frac{\securacy}{\securacy} \) \(\leq 2\securacy{\securacy}{\securacy} \) \(\leq 2\securacy{\securacy}{\securacy{\securacy}{\securacy}{\securacy}{\securacy}{\securacy} \) \(\leq 2\securacy{\securacy}{\securacy}{\securacy}{\securacy | measure range | see QUICK-SELECTION-TABLE | • | • |
| epeatability* | response time* | T90≤30/60/180S | • | • |
| Ampling method diffusion Electric Dattery CR2 Li-battery 3.7V 1500mAh CR2 Li-battery 3V 1400mAh CR2 Li-battery 3V 1400mAh CR3 Li-battery 3V 1400mAh CR3 Li-battery 3V 1400mAh CR4 Li-battery 3V 1400mAh CR5 Li-battery 3V 1400mAh CR7 Li-battery 3V 1400mAh CR8 Li-battery 3V 1400mAh CR9 Li-battery 3V 1400mAh C | accuracy* | ≤±5%FS | • | • |
| Techargeable Li-battery 3.7V 1500mAh CR2 Li-battery 3V 1400mAh continuous over 20 days in room temp. 2 year - Alarm alarm method Sound, LED light, vibration cound intensity 90dB Display and Operation display segment code LCD screen Environment ngress protection prerating temp. -20°C~60°C prerating humidity 10~95%RH non-condensing prerating pressure Structure cody material PC+TPU veight About 139g dimensions 98*67.5*50mm(H*W*D) Certificates Exib II CT4 Gb - CR2 Li-battery 3.7V 1500mAh - - - - - - - - - - - - - | repeatability* | ≤2%FS | • | • |
| rechargeable Li-battery 3.7V 1500mAh CR2 Li-battery 3V 1400mAh over 20 days in room temp. 2 year - Alarm darm method Sound, LED light, vibration sound intensity 90dB Display and Operation display segment code LCD screen Environment Ingress protection perating temp. perating temp. perating humidity operating pressure Structure oody material PC+TPU veight About 139g dimensions Px Exib II CT4 Gb - CR2 Li-battery 3.7V 1500mAh - CR2 Li-battery 3V 1400mAh - CR2 Li-battery 3V 140mAh - CR2 | sampling method | diffusion | • | • |
| CR2 Li-battery 3V 1400mAh continuous over 20 days in room temp. 2 year - Alarm darm method Sound,LED light, vibration Sound intensity >90dB Display and Operation display segment code LCD screen Environment ngress protection IP67 -20°C ~60°C | Electric | | | |
| CR2 Li-battery 3V 1400mAh over 20 days in room temp. 2 year - Alarm Alarm Alarm method Sound, LED light, vibration Sound intensity 90dB Display and Operation display segment code LCD screen Environment Ingress protection P67 Operating temp. -20°C ~60°C Operating humidity 10~95%RH non-condensing P0-tructure Structure Sody material PC+TPU About 139g Meight Meight Meight About 139g Meight | hottory | rechargeable Li-battery 3.7V 1500mAh | • | - |
| Alarm Al | battery | CR2 Li-battery 3V 1400mAh | - | • |
| Alarm Alarm method Sound, LED light, vibration Sound intensity >90dB Display and Operation Segment code LCD screen Environment Ingress protection IP67 Operating temp20°C~60°C Operating humidity 10~95%RH non-condensing Operating pressure 80-120kPa Structure Oody material PC+TPU Oveight About 139g Immensions 98*67.5*50mm(H*W*D) Certificates Exilographic Alarm Sound, LED light, vibration Operation | continuous | over 20 days in room temp. | • | - |
| alarm method Sound,LED light,vibration \bullet sound intensity $>90\mathrm{dB}$ \bullet | operation | 2 year | - | • |
| Sound intensity >90dB Display and Operation display segment code LCD screen Environment Ingress protection IP67 Ingress pro | Alarm | | | |
| Display and Operation display segment code LCD screen Environment Ingress protection IP67 Ingress protection IP67 Ingressing temp. Ingress protection IP67 Ingress protectio | alarm method | Sound,LED light,vibration | • | • |
| display segment code LCD screen Environment IP67 operating temp. $-20^{\circ} \sim 60^{\circ} \sim 10^{\circ}$ operating humidity $10 \sim 95\%$ RH non-condensing operating pressure $80-120$ kPa Structure $80-120$ kPa oody material $PC+TPU$ weight About 139g dimensions $98*67.5*50$ mm(H*W*D) Certificates Exib II CT4 Gb - | sound intensity | >90dB | • | • |
| Environment Ingress protection IP67 IP67 IP67 IP67 IP67 IP67 IP67 IP67 | Display and Opera | ition | | |
| Ingress protection IP67 Operating temp. $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$ Operating humidity $10 \sim 95\%\text{RH}$ non-condensing Operating pressure $80\text{-}120\text{kPa}$ Ody material PC+TPU Ody material PC+TPU Oweight About 139g Olimensions $98\text{*}67.5\text{*}50\text{mm}(\text{H*W*D})$ Ocertificates Exib II CT4 Gb Operating temp. Ope | display | segment code LCD screen | • | • |
| operating temp. $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$ • • • • • • • • • • • • • • • • • • • | Environment | | | |
| operating humidity 10~95%RH non-condensing operating pressure 80-120kPa • Structure oody material PC+TPU oveight About 139g Itimensions 98*67.5*50mm(H*W*D) Certificates Exib II CT4 Gb • • • • • • • • • • • • • | ingress protection | IP67 | • | • |
| operating pressure 80-120kPa Structure oody material PC+TPU weight About 139g dimensions 98*67.5*50mm(H*W*D) Certificates Exib II CT4 Gb • • • • • • • • • • • • • • • • • • | operating temp. | -20°C∼60°C | • | • |
| Structure PC+TPU • • body material PC+TPU • • weight About 139g • • dimensions 98*67.5*50mm(H*W*D) • • Certificates • - | operating humidity | 10∼95%RH non-condensing | • | • |
| boody material PC+TPU • | operating pressure | 80-120kPa | • | • |
| weight About 139g • • dimensions 98*67.5*50mm(H*W*D) • • Certificates • - | Structure | | | |
| dimensions 98*67.5*50mm(H*W*D) Certificates Exib II CT4 Gb - | body material | PC+TPU | • | • |
| Certificates Exib II CT4 Gb - | weight | About 139g | • | • |
| Exib II CT4 Gb - | dimensions | 98*67.5*50mm(H*W*D) | • | • |
| X | Certificates | | | |
| Exia II CT4 Ga | EV | Exib II CT4 Gb | • | Ę |
| | EA | Exia II CT4 Ga | | • |

Note:* refers to there's some difference vary from different gas, please contact the manufacturer for details.







In the daily production of petrochemical engineering, steel, and chemical engineering industries, workers often encounter with flammable and toxic gases of various sorts, and accidents are easy to take place without proper safety protection. As a kind of personal safety protection instrument, portable gas detector plays an important role in industrial production safety.

The portable gas detector is small in size and easy to carry. It can be used for workshop routing inspection for side leakage, as well as in confined spaces such as flame operation inspection.



difussion type gas detector

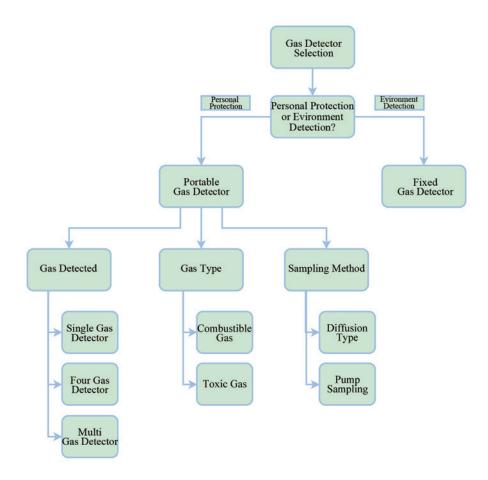


build-in pump gas detector



external pump gas detector

SELECTION GUIDE



QUICK SELECTION TABLE 4 -- PORTABLE GAS DETECTOR

| Description | AGH5100 | AGH5100M | AGH6100 | AGH6100F | AGH6200 | AGH6200F | AGH8100 | AGH8200 |
|-------------------------------|---------|----------------|---------|------------------|------------------|-----------------|---------|---------|
| The number of sensors | | | | | | | | |
| 1 | • | • | | • | - | • | • | • |
| 4 in 1 | - | - | - | - | • | - | - | - |
| 1~4, optional | - | | • | - | ; = ; | - | - | - |
| Gas detected | | | | | | | | |
| combustible gas-catalytic | - | - | • | • | • | • | - | - |
| combustible gas-semiconductor | - | - | - | - | - | 15- | • | • |
| toxic gas-electrochemical | • | • | • | - | • | - | - | ÷ |
| toxic gas-PID | - | - | • | - | - | | | - |
| toxic gas-infrared | - | - | • | (4) | - | - | | - |
| Sampling method | | | | | | | | |
| diffusion | • | • | • | • | • | • | - | • |
| built-in pump | - | - | - | - | - | - | • | - |
| Certificates | | | | | | | | |
| CPA | • | • | • | • | • | • | • | - |
| EX | • | • | • | • | • | • | • | • |
| ATEX | - | 7 . | • | • | - | 5. - | - | |
| CCCF | - | - | - | - | - | • | - | - |



| AGH8200 | | • | 5 T | 1 | | 1 | | | | | | | · | | ı | | | | • | 1 | | 81 | 11.03 | | | 1 | | r | | | r | | 1 |
|--|-----------------|-----------------|----------------------|-----------------|-------------------|-----------------|-----------------|-----------------|-----------------|------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|-----------------|------------------|------------------|-----------------|------------------|-----------------|--------------|-----------------|--------------|--------------------------------|--------------|----------------|--------------------------------|
| AGH8100 | • | • | • | 1 | • | | ı | 1 | • | ı | 1 | 1 | ı | • | ı | • | 1 | ī | • | 1 | ı | , | 1 | ı | 1 | 1 | i | • | 1 | • | ı | | , |
| AGH6200F | • | | | 1 | ٠ | | • | | • | | | | ı | • | ı | ٠ | • | 1 | | 1 | , | • | | ì | • | | | • | ٠ | | ţ | • | ı |
| AGH6200 | • | | • | • | • | | · Le | | | | | | | | • | | • | ı | | 1 | | • | • | 1 | | | | | | | ı, | | 1 |
| AGH6100F | • | | | | | | | | | 15 | | 1 | | | | | | ı | | • | | | | | | | | | | | ıs | | 1 |
| ETECTED AGH6100 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| E 5 GAS D AGHS100M | | | • | • | • | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K SELECTION TABLE 5 - GAS DETECTED solution AGH5100 AGH5100M AGH6100 | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | ī | | |
| QUICK SELECT Resolution | 1%LEL | 1µmol/mol | 0.1%VOL | 1µmol/mol | 1µmol/mol | 0.1 µmol/mol | 0.1 µmol/mol | 1µmol/mol | 1µmol/mol | 0.1 µmol/mol | 0.1µmol/mol | 0.01µmol/mol | 0.1 µmol/mol | 0.1 µmol/mol | 0.1µmol/mol | 0.1µmol/mol | 1µmol/mol | 0.01µmol/mol | 0.1 µmol/mol | 0.1 µmol/mol | 0.01µmol/mol | 0.01µmol/mol | 0.1µmol/mol | 0.1µmol/mol | 0.1 µmol/mol | 0.1 µmol/mol | 0.1%VOL | 0.1%VOL | 0.1µmol/mol | 0.1 µmol/mol | 0.1 µmol/mol | 1µmol/mol | 0.1µmol/mol |
| Principle | catalytic | Semiconductor | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Electrochemical | Infrared | Infrared | PID | PID | PID | PID | PID |
| Measure Range | 0-100%LEL | 0-10000µmol/mol | 0-30%VOL 0-25%VOL | 0-1000µmol/mol | 0-100µmol/mol | 0-10µmol/mol | 0-20µmol/mol | 0-100µmol/mol | 0-250µmol/mol | 0-20µmol/mol | 0-30µmol/mol | 0-1µmol/mol | 0-20µmol/mol | 0-20µmol/mol | 0-20µmol/mol | 0-5µmol/mol | 0-1000µmol/mol | 0-1µmol/mol | 0-10µmol/mol | 0-50µmol/mol | 0-1µmol/mol | 0-1/20µmol/mol | 0-50µmol/mol | 0-20µmol/mol | 0-20µmol/mol | 0-20µmol/mol | 0-5%/100%VOL | 0-5%/100%VOL | 0-20µmol/mol | 0-20µmol/mol | 0-20µmol/mol | 0-1000µmol/mol | 0-20µmol/mol 0-1000µmol/mol |
| | EX | CH ₄ | 02 | 00 | H_2S | CL_2 | SO_2 | NH ₃ | NO | NO ₂ | HCL | 03 | C_2H_4O | CH ₂ O | СН3ОН | PH ₃ | H_2 | F_2 | HF | HCN | COCL2 | AsH ₃ | SiH ₄ | C_3H_3N | CS ₂ | НО | CH⁴ | CO ₂ | C_7H_8 | C ₈ H ₁₀ | C_6H_6 | $C_2H_4O_2$ | VOC |
| Gas | Combustible gas | Methane | Oxygen | Carbon monoxide | Hydrogen sulphide | Chlorine | Sulphur dioxide | Ammonia | Nitric oxide | Nitrogen dioxide | Hydrogen chloride | Ozone | Ethylene oxide | Formaldehyde | Methanol | Phosphine | Hydrogen | Fluorine | Hydrogen fluoride | Hydrogen cyanide | Phosgene | Arsenic hydride | Silane | Acrylonitrile | Carbon disulfide | Ethanol | Methane | Carbon dioxide | Toluene | Xylene | Benzene | Acetic acid | Volatile organic compounds |

Note: 1, Any gas that not mentioned above, just contact AIYI Technologies for further information; 2, 1µmol/mol=1ppm







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