



## PORTABLE GAS LEAK DETECTOR

The AGH8100 & AGH8200 gas detector is designed to detect combustible gas leakage. The product sensor is optimized for methane and LPG gas detection compared to conventional combustible gas detectors, It can display  $\mu\text{mol/mol}$  (ppm) and is sensitive to small leakage in the environment. The product is IP66 rated, sturdy and durable.

The AGH8100 has a built-in sampling pump and quick response. AGH8200 is diffusion type

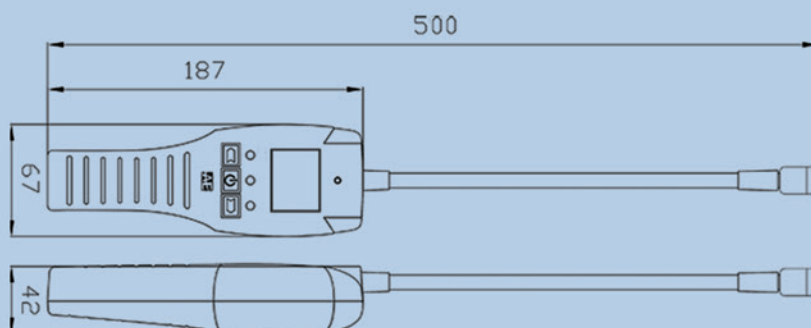
### Features

- Special design for methane & LPG ppm level gas leak detection, and short warm-up time.
- The  $\mu\text{mol/mol}$  (ppm) level shows a sensitive reflection of traces of methane.
- Built-in pump makes the AGH8100 more sensitive and rapid, easy to use.
- Sound, light, vibration alarm method, effective warning.
- The TPU+PC housing, more wear-resistant.
- Ingressive protection in IP66 rating, dustproof and waterproof.

## Specifications

Description	Specifications	AGH8100	AGH8200
<b>Function</b>			
gas detected	CH4, LPG or other combustible gas	●	●
measure range	0-10000μmol/mol	●	●
response time	<5s	●	●
accuracy	≤±5%FS	●	●
detection principle	semiconductor	●	●
sampling method	built-in pump	●	-
	diffusion	-	●
<b>Electric</b>			
battery	rechargeable Li-battery 2200mAh	●	●
continuous operation	over 8 hours	●	●
<b>Alarm</b>			
alarm method	sound, LED light, vibration	●	●
sound intensity	>90dB	●	●
<b>Display and Operation</b>			
display	OLED	●	●
button	3 (LEFT, OK, RIGHT)	●	●
<b>Environment</b>			
ingress protection	IP66	●	●
operating temp.*	-10℃~55℃	●	-
	-40℃~60℃	-	●
operating humidity	≤93%RH	●	-
	10%-95%RH non-condensing	-	●
operating pressure	80-120kPa	●	●
<b>Structure</b>			
body material	PC+TPU	●	●
weight	about 0.34kg	●	-
	about 0.3kg	-	●
dimensions	500*67*42mm(H*W*D) include probe	●	●
<b>Certificates</b>			
EX	Exdib II CT4 Gb	●	●

## Dimensions





## PORTABLE GAS DETECTOR

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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

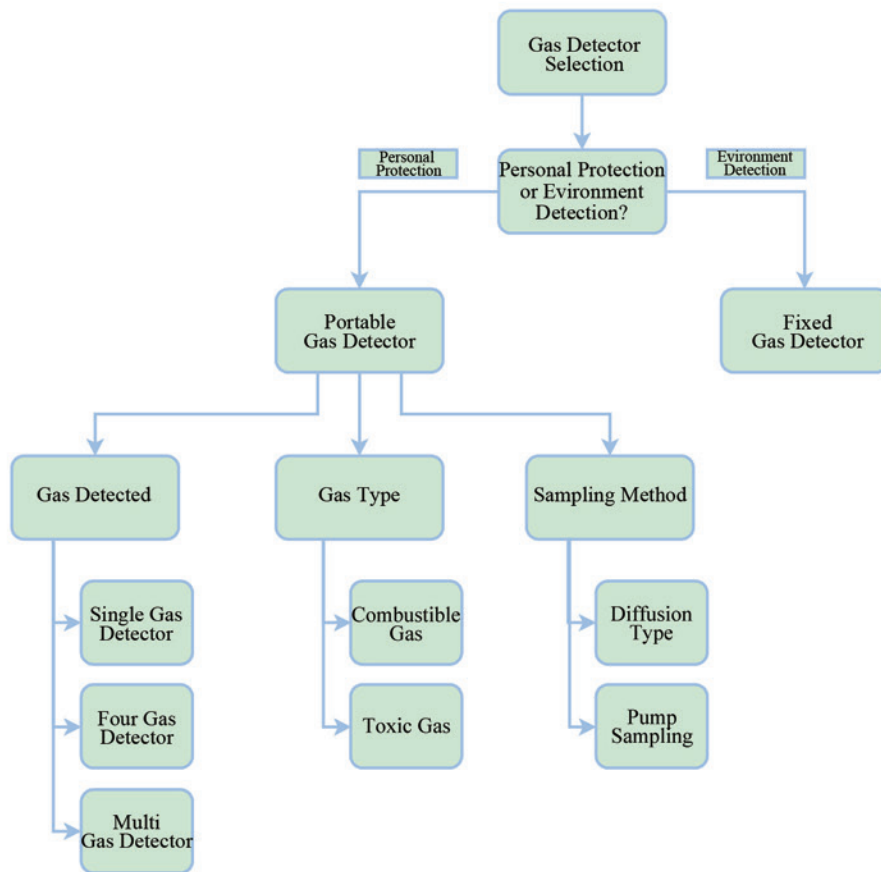


build-in pump gas detector



external pump gas detector

SELECTION GUIDE



QUICK SELECTION TABLE 4 -- PORTABLE GAS DETECTOR

Description	AGH5100	AGH5100M	AGH6100	AGH6100F	AGH6200	AGH6200F	AGH8100	AGH8200
<b>The number of sensors</b>								
1	●	●	-	●	-	●	●	●
4 in 1	-	-	-	-	●	-	-	-
1~4, optional	-	-	●	-	-	-	-	-
<b>Gas detected</b>								
combustible gas-catalytic	-	-	●	●	●	●	-	-
combustible gas-semiconductor	-	-	-	-	-	-	●	●
toxic gas-electrochemical	●	●	●	-	●	-	-	-
toxic gas-PID	-	-	●	-	-	-	-	-
toxic gas-infrared	-	-	●	-	-	-	-	-
<b>Sampling method</b>								
diffusion	●	●	●	●	●	●	-	●
built-in pump	-	-	-	-	-	-	●	-
<b>Certificates</b>								
CPA	●	●	●	●	●	●	●	-
EX	●	●	●	●	●	●	●	●
ATEX	-	-	●	●	-	-	-	-
CCCF	-	-	-	-	-	●	-	-



**QUICK SELECTION TABLE 5 -- GAS DETECTED**

Gas	Measure Range	Principle	Resolution	AGH5100	AGH5100M	AGH6100	AGH6100F	AGH6200	AGH6200F	AGH8100	AGH8200
Combustible gas	0-100%LEL	catalytic	1%LEL	-	-	●	●	●	●	-	-
Methane	0-10000µmol/mol	Semiconductor	1µmol/mol	-	-	-	-	-	-	●	●
Oxygen	0-30%VOL 0-25%VOL	Electrochemical	0.1%VOL	●	●	●	-	●	-	-	-
Carbon monoxide	0-1000µmol/mol	Electrochemical	1µmol/mol	●	●	●	-	●	-	-	-
Hydrogen sulphide	0-100µmol/mol	Electrochemical	1µmol/mol	●	●	●	-	●	-	-	-
Chlorine	0-10µmol/mol	Electrochemical	0.1µmol/mol	●	-	●	-	-	-	-	-
Sulphur dioxide	0-20µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Ammonia	0-100µmol/mol	Electrochemical	1µmol/mol	●	●	●	-	-	-	-	-
Nitric oxide	0-250µmol/mol	Electrochemical	1µmol/mol	●	●	●	-	-	-	-	-
Nitrogen dioxide	0-20µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Hydrogen chloride	0-30µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Ozone	0-1µmol/mol	Electrochemical	0.01µmol/mol	●	●	●	-	-	-	-	-
Ethylene oxide	0-20µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Formaldehyde	0-20µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Methanol	0-20µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Phosphine	0-5µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Hydrogen	0-1000µmol/mol	Electrochemical	1µmol/mol	●	●	●	-	-	-	-	-
Fluorine	0-1µmol/mol	Electrochemical	0.01µmol/mol	●	●	●	-	-	-	-	-
Hydrogen fluoride	0-10µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Hydrogen cyanide	0-50µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Phosgene	0-1µmol/mol	Electrochemical	0.01µmol/mol	●	●	●	-	-	-	-	-
Arsenic hydride	0-1/20µmol/mol	Electrochemical	0.01µmol/mol	●	●	●	-	-	-	-	-
Silane	0-50µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Acrylonitrile	0-20µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Carbon disulfide	0-20µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Ethanol	0-20µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Methane	0-5%/100%VOL	Infrared	0.1%VOL	-	-	●	-	-	-	-	-
Carbon dioxide	0-5%/100%VOL	Infrared	0.1%VOL	-	-	●	-	-	-	-	-
Toluene	0-20µmol/mol	PID	0.1µmol/mol	-	-	●	-	-	-	-	-
Xylene	0-20µmol/mol	PID	0.1µmol/mol	-	-	●	-	-	-	-	-
Benzene	0-20µmol/mol	PID	0.1µmol/mol	-	-	●	-	-	-	-	-
Acetic acid	0-1000µmol/mol	PID	1µmol/mol	-	-	●	-	-	-	-	-
Volatile organic compounds	0-20µmol/mol 0-1000µmol/mol	PID	0.1µmol/mol 1µmol/mol	-	-	●	-	-	-	-	-

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



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