



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.

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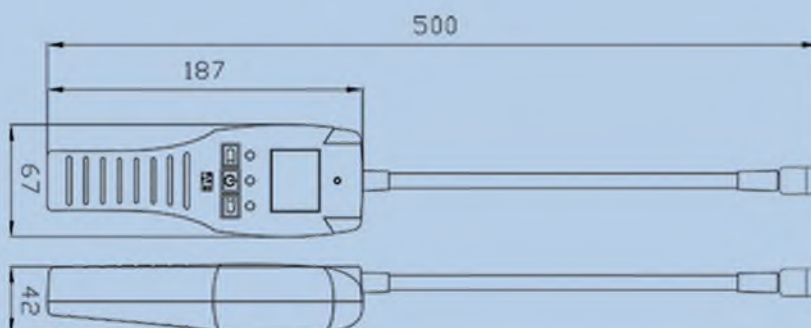
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Specifications

Description	Specifications	AGH8100	AGH8200
Function			
gas detected	CH ₄ , 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	-	•
Electric			
battery	rechargeable Li-battery 2200mAh	•	•
continuous operation	over 8 hours	•	•
Alarm			
alarm method	sound, LED light, vibration	•	•
sound intensity	> 90dB	•	•
Display and Operation			
display	OLED	•	•
button	3 (LEFT, OK, RIGHT)	•	•
Environment			
ingress protection	IP66	•	•
operating temp.*	-10℃~55℃	•	-
	-40℃~60℃	-	•
operating humidity	≤93%RH	•	-
	10%-95%RH non-condensing	-	•
operating pressure	80-120kPa	•	•
Structure			
body material	PC+TPU	•	•
weight	about 0.34kg	•	-
	about 0.3kg	-	•
dimensions	500*67*42mm(H*W*D) include probe	•	•
Certificates			
EX	Exdib II CT4 Gb	•	•

Dimensions





PORTABLE GAS DETECTOR

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.



diffusion type gas detector

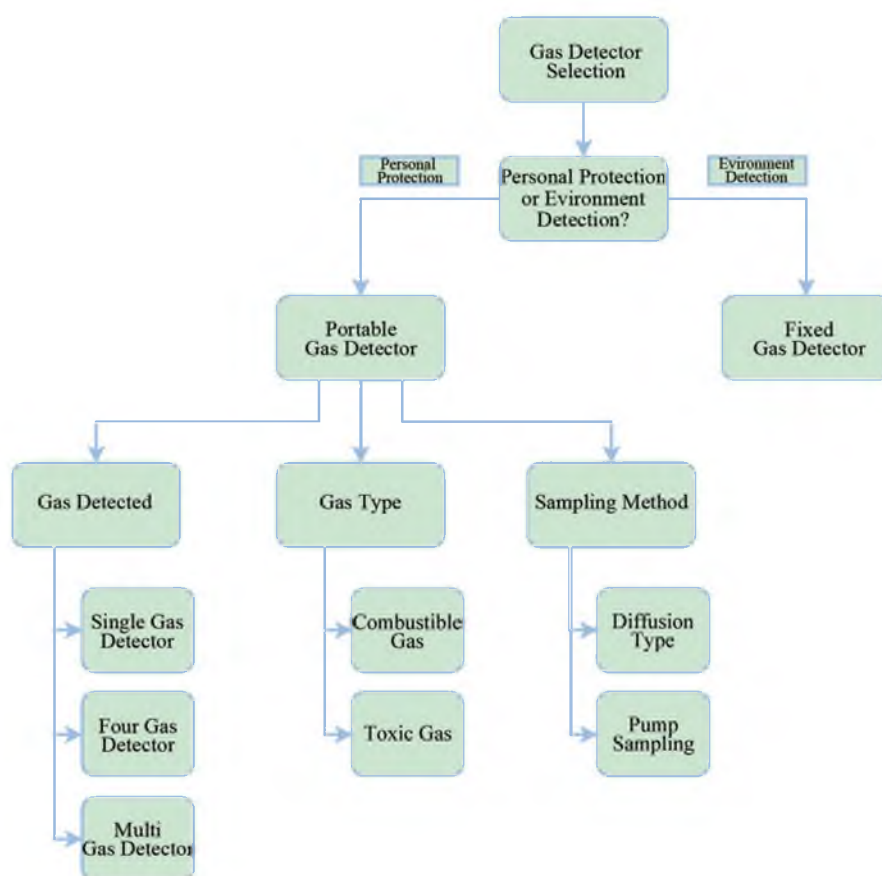


build-in pump gas detector



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	-	-	-	-	-	-	●	●
toxic gas-electrochemical	●	●	●	-	●	-	-	-
toxic gas-PID	-	-	●	-	-	-	-	-
toxic gas-infrared	-	-	●	-	-	-	-	-
Sampling method								
diffusion	●	●	●	●	●	●	-	●
built-in pump	-	-	-	-	-	-	●	-
Certificates								
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	EX	0-100%LEL	catalytic	1%LEL	-		●	●	●	●	-	-
Methane	CH ₄	0-10000µmol/mol	Semiconductor	1µmol/mol	-		-	-	-	-	●	●
Oxygen	O ₂	0-30%VOL 0-25%VOL	Electrochemical	0.1%VOL	●	●	●	-	●	-	-	-
Carbon monoxide	CO	0-1000µmol/mol	Electrochemical	1µmol/mol	●	●	●	-	●	-	-	-
Hydrogen sulphide	H ₂ S	0-100µmol/mol	Electrochemical	1µmol/mol	●	●	●	-	●	-	-	-
Chlorine	CL ₂	0-10µmol/mol	Electrochemical	0.1µmol/mol	●	-	●	-	-	-	-	-
Sulphur dioxide	SO ₂	0-20µmol/mol	Electrochemical	0.1µmol/mol	●	●	●	-	-	-	-	-
Ammonia	NH ₃	0-100µmol/mol	Electrochemical	1µmol/mol	●		●	-	-	-	-	-
Nitric oxide	NO	0-250µmol/mol	Electrochemical	1µmol/mol	●		●	-	-	-	-	-
Nitrogen dioxide	NO ₂	0-20µmol/mol	Electrochemical	0.1µmol/mol	●		●	-	-	-	-	-
Hydrogen chloride	HCL	0-30µmol/mol	Electrochemical	0.1µmol/mol	●		●	-	-	-	-	-
Ozone	O ₃	0-1µmol/mol	Electrochemical	0.01µmol/mol	●		●	-	-	-	-	-
Ethylene oxide	C ₂ H ₄ O	0-20µmol/mol	Electrochemical	0.1µmol/mol	●		●	-	-	-	-	-
Formaldehyde	CH ₂ O	0-20µmol/mol	Electrochemical	0.1µmol/mol	●		●	-	-	-	-	-
Methanol	CH ₃ OH	0-20µmol/mol	Electrochemical	0.1µmol/mol	●		●	-	-	-	-	-
Phosphine	PH ₃	0-5µmol/mol	Electrochemical	0.1µmol/mol	●		●	-	-	-	-	-
Hydrogen	H ₂	0-1000µmol/mol	Electrochemical	1µmol/mol	●		●	-	-	-	-	-
Fluorine	F ₂	0-1µmol/mol	Electrochemical	0.01µmol/mol	●		●	-	-	-	-	-
Hydrogen fluoride	HF	0-10µmol/mol	Electrochemical	0.1µmol/mol	●		●	-	-	-	-	-
Hydrogen cyanide	HCN	0-50µmol/mol	Electrochemical	0.1µmol/mol	●		●	-	-	-	-	-
Phosgene	COCL ₂	0-1µmol/mol	Electrochemical	0.01µmol/mol	●		●	-	-	-	-	-
Arsenic hydride	AsH ₃	0-1/20µmol/mol	Electrochemical	0.01µmol/mol	●		●	-	-	-	-	-
Silane	SiH ₄	0-50µmol/mol	Electrochemical	0.1µmol/mol	●		●	-	-	-	-	-
Acrylonitrile	C ₃ H ₃ N	0-20µmol/mol	Electrochemical	0.1µmol/mol	●		●	-	-	-	-	-
Carbon disulfide	CS ₂	0-20µmol/mol	Electrochemical	0.1µmol/mol	●		●	-	-	-	-	-
Ethanol	C ₂ H ₅ OH	0-20µmol/mol	Electrochemical	0.1µmol/mol	●		●	-	-	-	-	-
Methane	CH ₄	0-5%/100%VOL	Infrared	0.1%VOL	-		●	-	-	-	-	-
Carbon dioxide	CO ₂	0-5%/100%VOL	Infrared	0.1%VOL	-		●	-	-	-	-	-
Toluene	C ₇ H ₈	0-20µmol/mol	PID	0.1µmol/mol	-		●	-	-	-	-	-
Xylene	C ₈ H ₁₀	0-20µmol/mol	PID	0.1µmol/mol	-		●	-	-	-	-	-
Benzene	C ₆ H ₆	0-20µmol/mol	PID	0.1µmol/mol	-		●	-	-	-	-	-
Acetic acid	C ₂ H ₄ O ₂	0-1000µmol/mol	PID	1µmol/mol	-		●	-	-	-	-	-
Volatile organic compounds	VOC	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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