

PORTABLE GAS LEAK DETECTOR

The AGH8100 & AGH8200 gas detector is designed to detect combustibe gas leakage. The product sensor is optimized for methane and LPG gas detection compared to conventional combustible gas detectors, It can display μmol/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

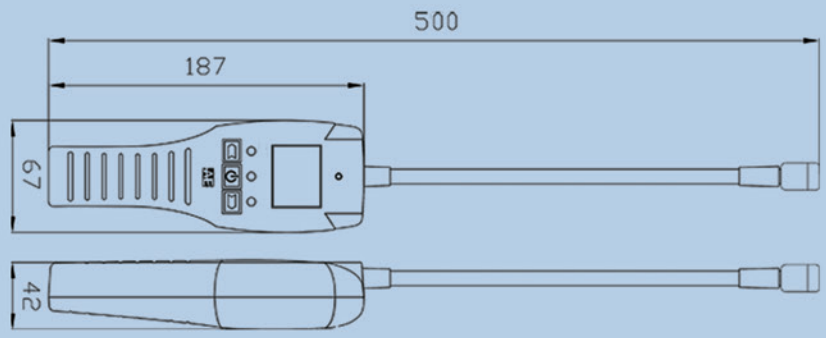
Features

- Special design for methane & LPG ppm level gas leak detection, and short warm-up time.
- The μmol/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
Function			
gas detected	CH4, LPG or other combusitble 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.



difussion type gas detector

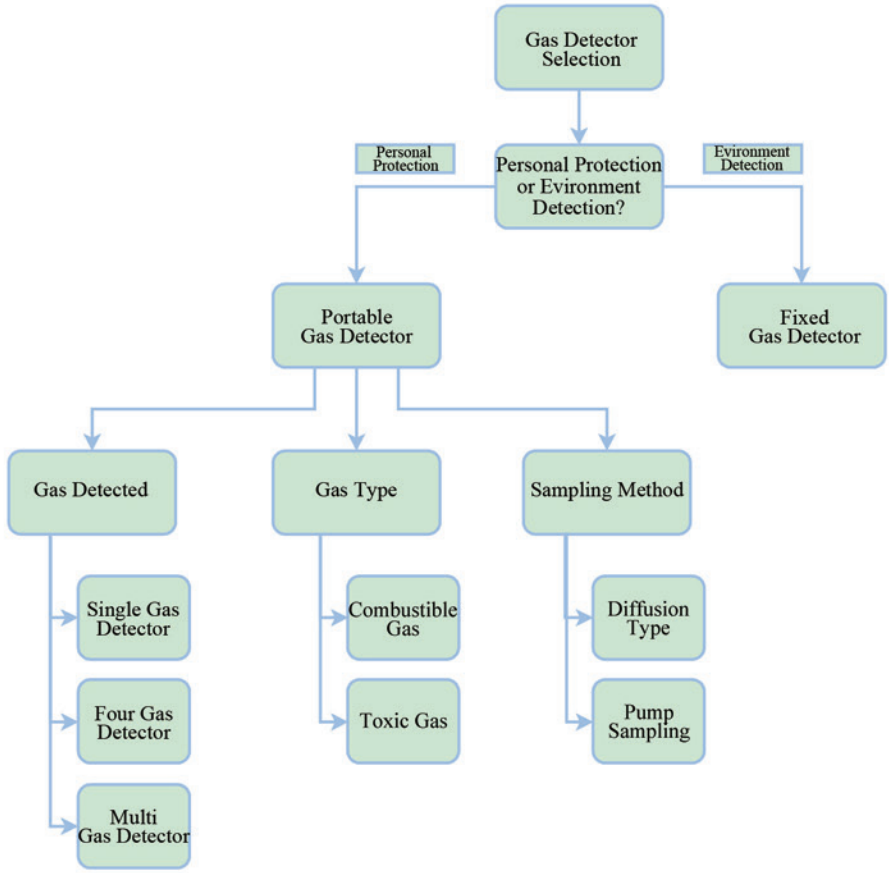


build-in pump gas detector



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	-	-	-	-	-	-	●	●
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_2S	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_2H_4O	0-20μmol/mol	Electrochemical	0.1μmol/mol	●		●	-	-	-	-	-
Formaldehyde	CH_2O	0-20μmol/mol	Electrochemical	0.1μmol/mol	●		●	-	-	-	-	-
Methanol	CH_3OH	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_3H_3N	0-20μmol/mol	Electrochemical	0.1μmol/mol	●		●	-	-	-	-	-
Carbon disulfide	CS_2	0-20μmol/mol	Electrochemical	0.1μmol/mol	●		●	-	-	-	-	-
Ethanol	C_2H_5OH	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_7H_8	0-20μmol/mol	PID	0.1μmol/mol	-		●	-	-	-	-	-
Xylene	C_8H_{10}	0-20μmol/mol	PID	0.1μmol/mol	-		●	-	-	-	-	-
Benzene	C_6H_6	0-20μmol/mol	PID	0.1μmol/mol	-		●	-	-	-	-	-
Acetic acid	$C_2H_4O_2$	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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