



## PORTABLE SAMPLING PUMP

The AGH1000B sampling pump is a hand-held gas sampling pump that is mainly used to assist the gas collection of portable gas detectors. With the intrinsically safe design, it can be used in explosive hazardous areas; large-capacity battery makes it a long operation time.

### Features

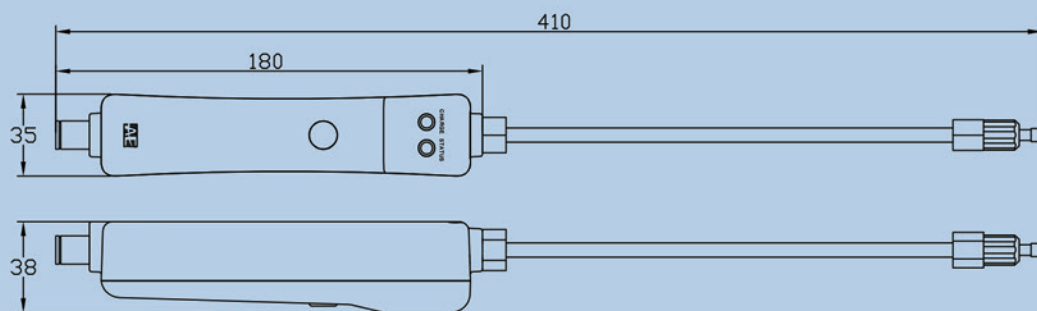
- Compatible with the gas detector for confined space usage.
- A replaceable filter design that blocks dust, water to protects the gas detector.
- Blocking alarm function, effectively reminding the sampling blockage.
- Quick-plug connection design for a quick connection with the detector.
- Long stainless steel sampling probes are suitable for a variety of confined spaces.
- Intrinsically safe design for hazardous areas.



## Specifications

|                       |   |
|-----------------------|---|
| <b>Function</b>       |   |
| sampling flow         | 500ml/min                                   |
| indicator light       | status, charge                              |
| <b>Environment</b>    |   |
| ingress protection    | IP55  |
| operating temperature | -10°C ~ 55°C                                |
| operating humidity    | 10~95%RH non-condensing                     |
| operating pressure    | 80-120kPa                                   |
| <b>Electrical</b>     |   |
| battery               | rechargeable lithium battery, 3.7V, 2200mAh |
| working time          | ≥12h  |
| <b>Structure</b>      |   |
| body material         | ABS   |
| sampling pipe         | stainless steel                             |
| weight                | about 0.24kg                                |
| dimensions            | 410*35*38mm(H*W*D)                          |
| <b>Certificate</b>    |   |
| EX                    | Exib 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

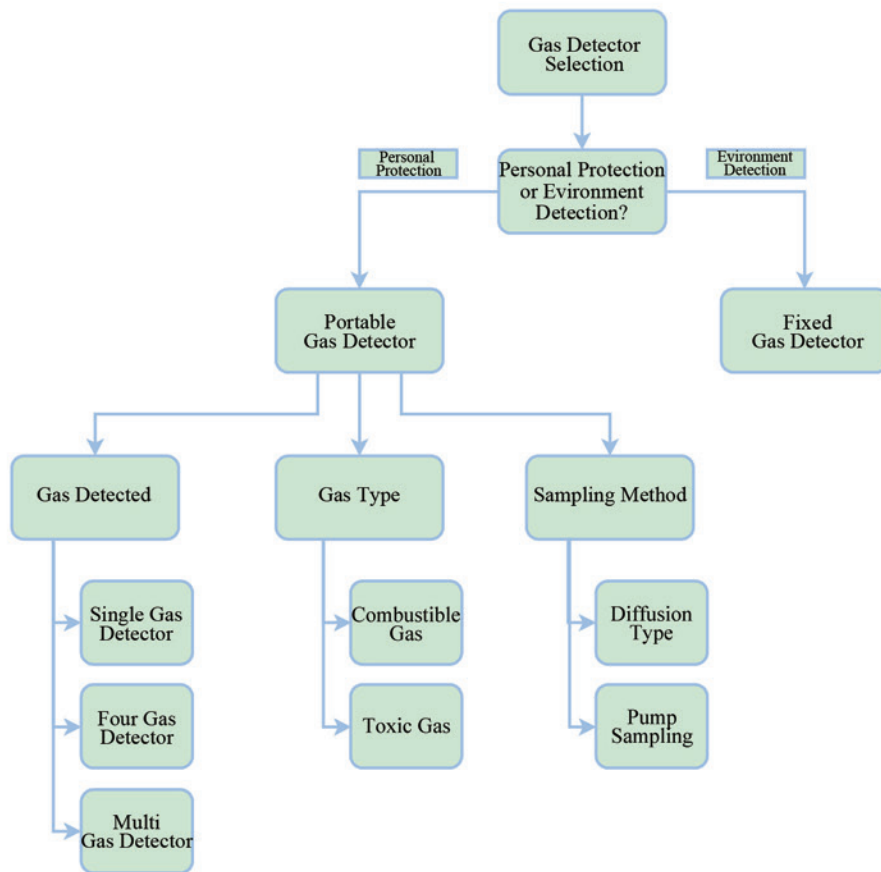


build-in pump gas detector



external pump gas detector

SELECTION GUIDE



QUICK SELECTION TABLE 4 -- PORTABLE GAS DETECTOR

| Description                   | AGH5100 | AGH5100M | AGH6100 | AGH6100F | AGH6200 | AGH6200F | AGH8100 | AGH8200 |
|-------------------------------|---------|----------|---------|----------|---------|----------|---------|---------|
| <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<br>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<br>0-1000µmol/mol | PID             | 0.1µmol/mol<br>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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