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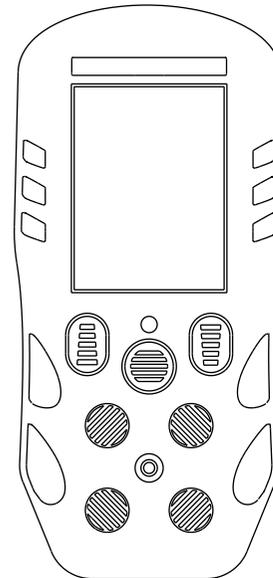Fax : +86-25-87787362
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ISO9001: 2008 Quality Management System Authenticated Company

AGH6100 Series Portable Gas Detector

Operator's
Manual

Nanjing Aut. Eq. Science & Technology Co., Ltd.

# Company Introduction

Nanjing Aut. Eq. Science & Technology Co., Ltd is a joint-stock high-tech enterprise that combines the R&D, production and sales of optic-mechanical-electric products. We are dedicated to providing complete domestic & industrial, gas & dust safety solutions to customers.

With our expertise in safety and excellent public praise, standardized quality management system and all-sided service system throughout the years, AE Technology has already become a leading brand in the gas & dust safety industry in China. AE Technology has been providing products and services for Chinese and foreign well-known enterprises and has extended its businesses in pharmaceuticals, agrochemicals, environmental protection, automobile, fodder and food. The product quality and professional service of AE Technology have been highly regarded and widely acclaimed among customers.

Willing to work with
clients all over the world

to establish long term and stable cooperative
relations of mutual benefit.

# Cautions

## 5, Cautions

1, Read the following cautions before using the detector.
2, Substitution of components may impair Intrinsic Safety.
3, For safety reasons, this equipment must be operated and serviced by qualified personnel only.
4, Once an alarm occur while working, please evacuate immediately in case of danger.
5, If low power happens with buzzer alarm and display, please charge immediately in case of danger. **DO NOT CHARGE IN DANGER AREA**.
6, Extended exposure of the detector to high concentrations of corrosive gases and air may stress a detector element that can seriously affect its performance.
7, 12 months warranty from sale.
8, Warranty is voided by abuse including mechanical damage, alteration, or repair not in accordance with the instruction manual.

## 6, Packing List

| | |
|---|---|
| 1, AGH6100 portable gas detector | 1 set |
| 2, Operator's manual | 1 copy |
| 3, Product certificate | 1 copy |

# Operation

## Alarm Test



Press 📖 to select [*ALARM TEST*], then press 🔘 to check if it alarm with sound, light, vibration while alarm value show up.

## Span Calibration



Press 📖 to select [*SPAN CAL*], then press 🔘 to confirm (code required).After select gas press 🔘 to confirm and begin calibration, select [*YES*] to finish.

## Zero Calibration



Press 📖 to select [*ZERO CAL*], then press 🔘 to confirm (code required), after select gas press 🔘 to confirm and begin calibration, select [*YES*] to finish.

## Save and Exit



Press 📖 to select [*SAVE*], then press 🔘 to confirm and back to home menu.

# Content

# Introduction

## 1, Introduction

AGH6100 portable gas detector's easy-to-use design makes it ideally suited for a wide range of applications, including sewage treatment plants, utility manholes, tunnels, petrochemical refineries, mines etc.

Detection of 4 gases at most at the same time such as combustible gas, oxygen, and toxic gases etc.

Skid-resistant, IP66 protection level, dust & water proof, suitable for severe scenarios of all sorts;

Screen rotation for views of different angles.

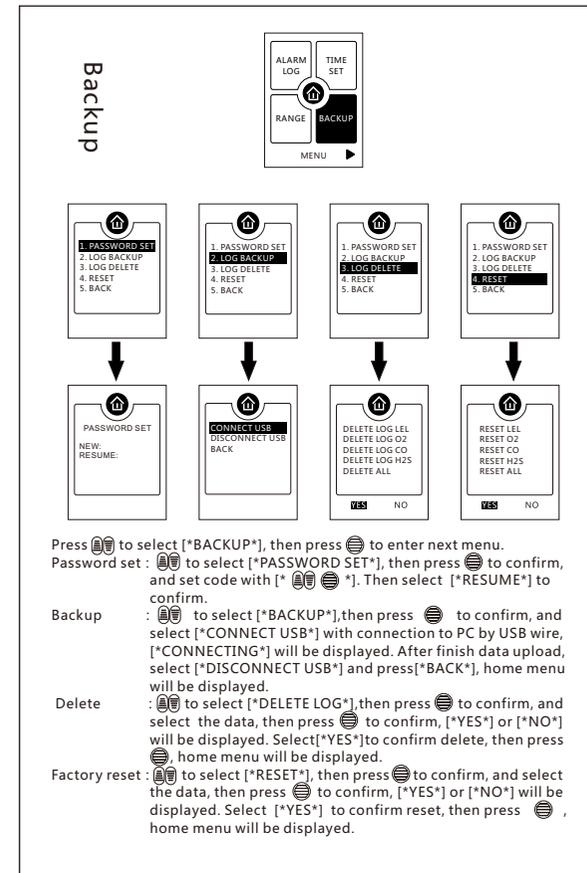## 2, Specifications

Dimensions : 155x75x38mm

Alarm type : 4 alarm light,  1 status light,
             1 charge light, 1 buzzer
             1 vibration alarm

Alarm sound : > 70db

Battery : Rechargeable Lithium Battery
          3.7V/2200mAh

# Operation

## Backup



Press to select [*BACKUP*], then press to enter next menu.
Password set : to select [*PASSWORD SET*], then press to confirm, and set code with [* *]. Then select [*RESUME*] to confirm.
Backup : to select [*BACKUP*],then press to confirm, and select [*CONNECT USB*] with connection to PC by USB wire, [*CONNECTING*] will be displayed. After finish data upload, select [*DISCONNECT USB*] and press[*BACK*], home menu will be displayed.
Delete : to select [*DELETE LOG*],then press to confirm, and select the data, then press to confirm, [*YES*] or [*NO*] will be displayed. Select[*YES*]to confirm delete, then press , home menu will be displayed.
Factory reset : to select [*RESET*], then press to confirm, and select the data, then press to confirm, [*YES*] or [*NO*] will be displayed. Select [*YES*] to confirm reset, then press , home menu will be displayed.

# Operation

## Home Menu

Eight options will be displayed in home menu by two pages.
Press 🔘🔘 to select and press 🔘 to confirm.

### Alarm record



press 🔘🔘 to select [*ALARM LOG*], then press 🔘 to confirm.
then press 🔘🔘 to select gas, press 🔘 to enter the detailed
alarm record with time and value.

### Time setup



press 🔘🔘 to select [*TIME SET*], then press 🔘 to enter setup.
then press 🔘🔘 to setting. In final, select [*YES*] to confirm.

### Measure range



Press 🔘🔘 to select [*RANGE*], then press 🔘 to confirm,the
default measure value will show up which cannot be changed.

# Body

Service time :  24 hours (below 25℃)
Charge         :  > 4hours  (below 6V)

IP       grade :  IP66
Ex       grade :  Exd ib ⅡC T4 Gb
Work   temp :  -10℃~55℃
Humidity     :  < 95%RH

## 3, Body

1-Display          2-Buzzer          3-Up/down key  4-Enter key
5-Charge light  6-Status light   7-Alarm light    8-Sensors
9-USB/charge   10-Alligator clip                    11-Screw

## 4, Operation

### Button

< ▤▤ > : Selecting founction

< ▤ > : Turn on/off device
        Enter menu with long press
        Confirm and enter

### LED light

< Charge light > : Charging with red light

                Finish with light off

< Alarm   light > : Alarming wih red light

< Status   light > : Normal with green light

                Fault with yellow light

### Backlight

< Press any key > : backlight turn on,  backlight turn off
                  after 5 seconds no operation.

### Vibration

< Alarming with vibration >
< power on/ off with vibration >

### Buzzer

< Alarming > : high alarm or low alarm with different
               buzzer.

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### Power on

Long press ▤ to enter initialization with logo, then wait with patient.   and select [*YES*] or [*NO*] to calibration. After that, work menu will be displayed.



### Home page



SAFE STATUS          ALARM STATUS

### Home menu

Long press ▤ , the menu will be displayed as below. release at [OFF] will power off. Release after count down will enter home menu.



Power Off       —— Count Down ——