



Product Name	GAOTek Methane Gas Leak Detector
Product SKU	GAOTek-MGD-132
Product URL	https://gaotek.com/product/gaotek-methane-gas-leak-detector-3/

Contact us: sales@gaotek.com

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Chapter 1: Product introduction

1.1 Brief introduction

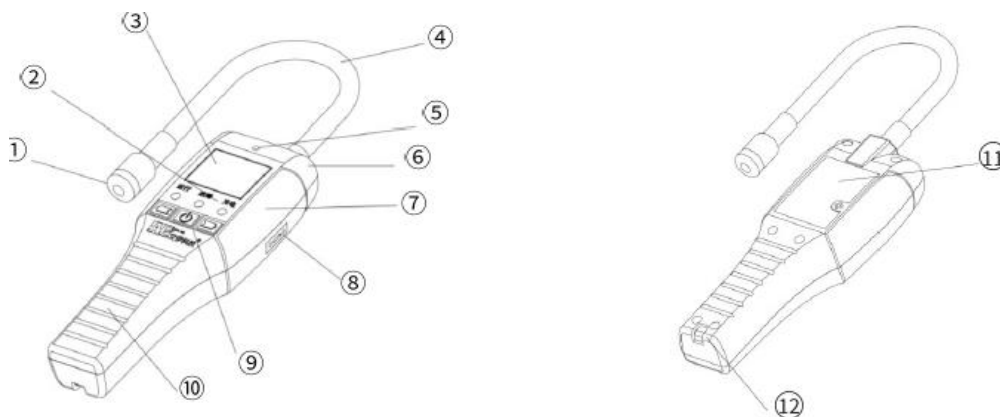
The product adopts the semiconductor principle and can be widely used in the leak detection of natural gas, methane heating system, gas valve, standard instrument and pipeline. The overall design of the instrument is small and exquisite, which greatly improves the comfort of customers. In order to meet the various conveniences of on-site use, the instrument also adds a color screen display, alarm records, etc.

Main features of the product:

- High-performance semiconductor principle, which can sensitively detect ppm leakage.
- Multiple alarm methods with sound and light vibration, effective reminder.
- IP66 protection level, no fear of harsh environments such as water and dust.
- Flexible bellows, flexible measurement of various areas.
- OLED display, the display is clearly visible.
- Standard Micro USB interface, convenient for charging.

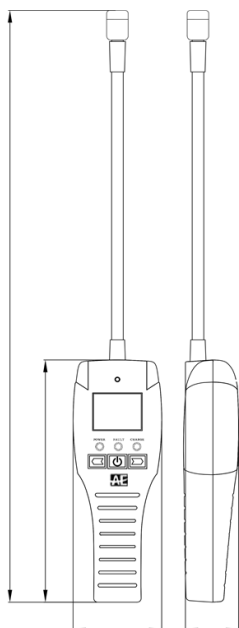
The design, manufacture, testing follow the below standards:

- "Electrical Equipment for Explosive Gas Atmosphere Part 1: General Requirements"
- "Explosive Atmosphere Part 2: Equipment Protected by Flameproof Enclosure "d""
- "Explosive Atmosphere Part 4: Equipment Protected by Intrinsic Safety Type "i"".
- "Enclosure protection class (IP code)"
- "Portable Gas Detection Alarm"





- | | | | | | | | |
|---|--------|----|-----------------|----|-----------|----|---------------|
| 1 | Filter | 2 | Indicator light | 3 | Screen | 4 | Gooseneck |
| 5 | Buzzer | 6 | Alarm light | 7 | Body | 8 | Charging port |
| 9 | Button | 10 | Handle | 11 | Nameplate | 12 | Lanyard hole |



Power light: steady green when working
 Fault light: steady yellow light when the instrument is blocked or the sensor is faulty.
 Charging light: red when charging, off when finish charging



Left button: UP、 Zero cal
 Middle button: Confirm(OK)、 ON/OFF
 Right button: DOWN、 Mute

1.2 Specification

Items	Specification
Gas detected	Combustible gas
Measure range	0-10000 ppm[1]
Alarm value set	Primary alarm: 20ppm/ Secondary alarm: 50ppm (adjustable alarm value)
Response time	T9060s
Accuracy	5%FS
Detection principle	Semiconductor
Sampling method	Diffusion
Display	OLED
Alarm method	Sound, light, vibration alarm
Operating temperature	-40~60
Operating humidity	10~95%RHNon-condensing
Ex-proof Grade	Exd ib C T4 Gb
Ingress protection	IP66

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Charging voltage	DC5V
Charging time	4h
Continuous operation time	not less than 8h
Dimensions	187mm*67mm*42mm Without probe
Weight	About 0.3kg

2 Chapter 2: Operation

2.1 Packing List

Please confirm if the package is complete before use. If there is any loss, please contact us as soon as possible.

Item	Quantity	Item	Quantity	Item	Quantity
Detector	1	Calibration certificate & product certificate	1	Operators Manual	1
Charger & USB cable	1				

2.2 Power on/off

Power, zero, mute

Long press the middle button to turn on, the screen displays the preheating countdown interface, after.



preheating is completed, it enters the zero point compensation. If the interface is in fresh air, select "Yes", and then enter the main interface, which can be used normally.

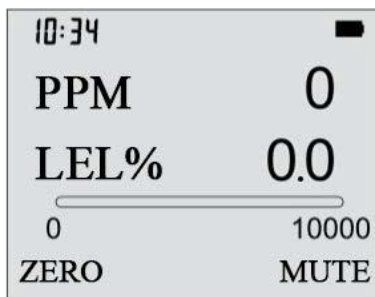
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In the main interface, press the left button to adjust zero, press the right button to mute the alarm.

Shutdown

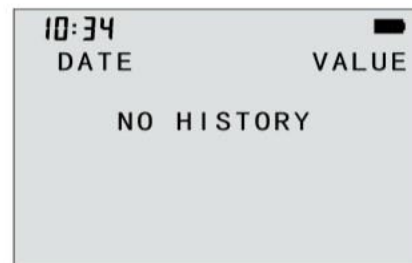
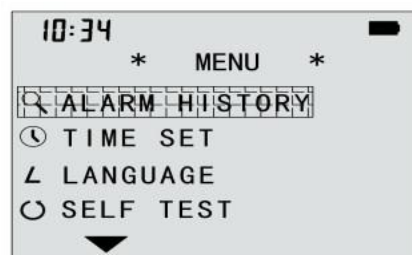
In the main interface, long press the middle button to enter the shutdown interface, and release the button to enter the shutdown state. If there is a fault, the device will not be able to enter the main interface smoothly, please contact our company to solve it in time.



2.3 Operation



Press and hold the middle button to enter the shutdown interface. At this time, press the middle button twice to enter the user menu interface.

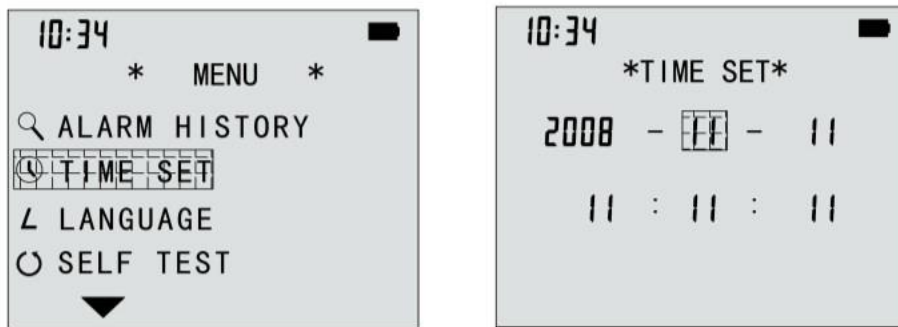




- Alarm history

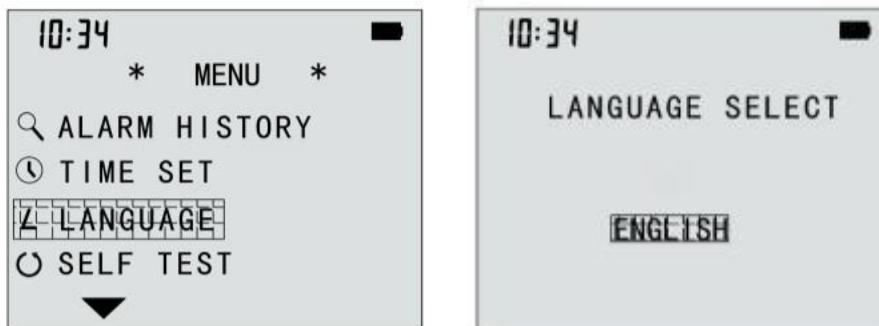
After entering the menu, short press the left button or right button to select the “ALARM HISTORY” option, short press the middle button to enter the alarm history interface. Press and hold the middle button to exit the alarm history interface and return to the menu interface.

Time set



After entering the menu, short press the left button or right button to select the “TIME SET” option, short press the middle button to enter the time setting interface. Short press the middle button to select the time option you want to modify, press the left button or right button to modify the option content. After the modification is completed, long-press the middle button to exit the time set option and return to the menu interface.

- Language selection



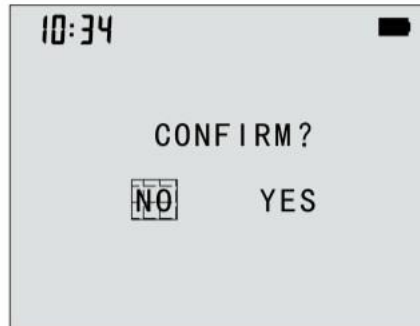
After entering the menu, short press the left button or right button to select the “Language” option, short press the middle button to enter the language selection interface, press the left button or right button to select the type of prediction, confirm the long press the middle button to exit the language selection interface, return to the menu interface.

- Self-test



After entering the menu, short press the left button or right button to select the “SELF TEST” option, short press the middle button, it enters the self-test state. The display shows red, yellow, blue, white and black in turn, the lights flash in sequence, and the buzzer sounds once. It loops twice like that. After the self-test is completed, the display shows “Finish” and then enters the display concentration interface.

- Factory reset



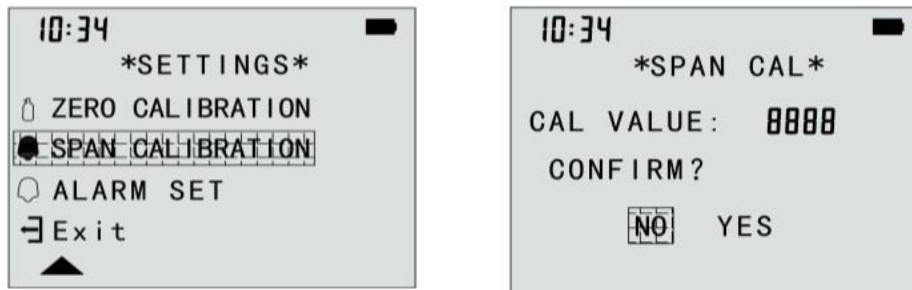
After entering menu, short press the left button or right button to select the “Factory Reset” option, short press the middle button, the instrument restores the factory set.

2.4 Advanced operations



After entering the user menu, short press the left button or right button to select the “SETTINGS” option, short press the middle button to enter the factory setting input password option, enter the correct password to enter the factory setting interface.

- Span calibration



After entering the factory setting interface, short press the left key or right key to select the "SPAN calibration" interface, and short press the middle key to enter. In the calibration setting, short press the left or right button to adjust the value, and short press the middle button to adjust the number of digits. After the modification is completed, long press the middle button to jump to whether to confirm, short press the left button or the right button to select "Yes" or "No", and return to the factory setting interface after confirming.

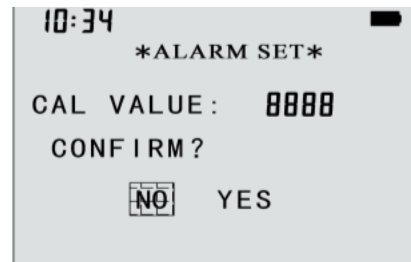
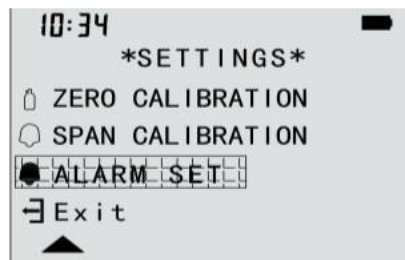
- Alarm-1 set

After entering the factory setting interface, select the "alarm-1 set" option, and short press the



middle key to enter. In the setting, short press the left or right button to adjust the value, and short press the middle button to adjust the number of digits. After the modification is completed, long press the middle button to jump to whether to confirm, short press the left button or the right button to select "Yes" or "No", and return to the factory setting interface after confirming.

- Alarm-2 set

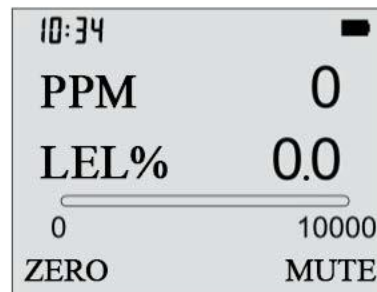


After entering the factory setting interface, short press the left key or right key to select the "alamr-2 set" option, and short press the middle key to enter. In the calibration setting, short press the left or right button to adjust the value, and short press the middle button to adjust the number of digits. After the modification is completed, long press the middle button to jump to whether to confirm, short press the left button or the right button to select "Yes" or "No", and return to the factory setting interface after confirming.

- Exit settings



After entering the settings interface, short press the left button or right button to select the "Exit" option, short press the middle button, the screen will automatically exit the settings interface and return to the previous menu.



2.5 Exit menu

Short press the left button or right button in the menu to select the "Exit" option, short press the middle button to automatically exit the user menu and return to the normal value display interface and return to the normal numerical display interface.

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3 Chapter 3: Maintenance

3.1 Daily maintenance

Charging

There is a power indicator in the upper right corner of the display. When the battery is in low power, it should be charged in time. The charging port is a standard USB charging port. When charging, the original charger can be used, and the standard data cable can also be used for charging. When charging, the charging indicator of the device keeps red, and there is also a charging prompt in the upper right corner of the display. When fully charged, the charge indicator automatically turns off.

Note: Battery charging advice: Do not recharge the battery when it is completely used. This will reduce battery life. When the display shows that the battery is full, do not remove the charging socket immediately. It should be recharged for a suitable time until the charging indicator goes out.

3.2 Cautions:

- This instrument needs to be used and maintained by personnel who have passed a certain period of training or specialized personnel.
- The use of this instrument must strictly follow the rules determined by our company.
- The maintenance of the instrument and the replacement of parts must use the original spare parts of our company and be completed by specially trained personnel.
- The charging must be carried out in a safe place.
- Please pay attention to prevent the detector from falling from a high place or subject to severe vibration.
- It is strictly forbidden to expose the detector to high-concentration gas, corrosive gas and other environments to work for a long time, otherwise it will cause serious damage to the sensor.

3.3 Warranty

Nanjing Aiyi Technology promises that the product will be guaranteed for one year and life-long service from the day the product leaves the factory. If the product fails, or if there is any problem during use, you can contact us at any time, and we will be happy to provide you with timely and high-quality service!

Model	Commitment policy	Service method
AGH8200	One year warranty Lifelong service	Return to factory

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The following conditions are not covered by the free repair unless agreed by AIYI, please note:

- Use, or maintain the product to result in damage to the product without in accordance with the instructions
- The warranty period expired.
- Unauthorized disassembly, alter or tear up product labels.
- Damage caused by transportation, loading and unloading during the repaired products return shipment.
- Faults or damage caused by force majeure such as earthquakes, fires, lightning strikes, etc.
- Faults or damage caused by unexpected factors or human behavior.
- The warranty is limited to the instrument itself. Installation accessories and so on are not covered by the warranty.

3.4 Trouble-shooting

Faults	Recommended Solutions
Abnormal charging	Power off first, and replace the charger or cable
Readings drift	Re-Calibration
Cannot connect to PC	Replace the cable or replace the PC
Fail to power on	Try reboot after charging, or please contact the manufacturer
Battery low alarm	Stop operation, turn off and charging
The fault light keeps on	Contact the manufacturer