User manual GD-03

Gas Leak Detector

⚠ Before using the instrument,please read this manual carefully,and save it well for future using.

1

Safety Information

Read this manual carefully, and familiarize yourself with the product before you put it to use. Keep this documentation close to hand in order to be able to consult it if required.

Avoid Personal Injury or Equipment Damage

- Use the measuring instrument only for the purpose for which it is intended, and within the parameters stated in the technical data
- If damage, malfunction,or incorrect displays occur, have the instrument checked. Do not use faulty instruments.
- Do not carry out measurements with the product on or near live parts.
- Do not use in closed rooms with explosive gas mixtures.

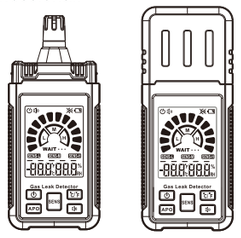
2

- Never store the product together with solvents, acids , or other corrosive substances.
- Carry out only repair and maintenance work described in the instruction manual. Observe the prescribed handling steps.
- This detector is not a safety detection device! For your personal safety, do not use it as a monitoring instrument.
- You must turn on the instrument in a clean air environment and wait for the warm-up to complete.
- Do not use the instruments in environments with over 80 %RH (condensation).
- Observe permitted storage and transport temperature as well as the permitted operating temperature.
- Do not use in closed rooms in which gases have collected into an explosive mixture.
- Ensure that the gas concentration does not exceed 20 % LFL (Lower flammability limit).
- Always carry out a functionality test before gas detection.
- Setting the sensitivity of the sensor in gas-contaminated surroundings lowers the alarm thresholds.

3

INTRODUCTION

This product is a flammable gas leak detector, used for fast and reliable detection of flammable gas leakage on the gas pipeline, at the same time, the use of high-precision temperature and humidity sensors, used to measure the current environment relative humidity and temperature instruments; It is widely used and is an indispensable tool for every professional.



DISPLAY SCREEN

4

Sign	Function	Sign	Function
⏻	Auto-off	SENS-L	Low sensitivity
🔊	Buzzer on	SENS-M	Mid sensitivity
🔇	Buzzer off	SENS-H	High sensitivity
°C	Centigrade unit	RH%	Humidity unit
°F	Fahrenheit unit	🔋	Better low

5

⚠ WARNING

Must be in a clean air environment power on, and wait for the completion of preheating. Check the function of the gas detector before use to make sure the detector is normal.

Operation

1) in a clean air environment，Press the power key and hold it for more than 1 second, then turn on the instrument with a beep.
2) Detector will start to preheat the sensor, analog bar cycle display, wait about 30 seconds, the Buzzer “Beep” twice, detector preheating completed.
3) After preheating the detector, bring the detector to the testing environment.
4) Bring the sensor head closer and closer to the test point.
5) when the detector detects combustible gas, the number of analog strips will increase as the gas concentration increases; the buzz will increase as the gas concentration increases, and the backlight will change from green to orange and up to red as the signal increases.
6) Press the power button ⏻ and hold for more than 1 second, and the Buzzer “Beep” a shutdown.

Sensitivity Selection

Start up the default high sensitivity, press the key SENS, switch to low sensitivity, and

6

then press for medium sensitivity, the corresponding display screen.

High sensitivity: The buzzer begins to ring in the second cell of the signal

Medium sensitivity: The buzzer begins to ring at the fifth bar of the signal

Low sensitivity: The buzzer begins to ring at the eighth bar of the signal

BUZZER Alarm Control

Press the button 🔊,turn off the buzzer alarm function, and press the button again to turn on.

Selection of Temperature Units

Press the button °C/°F to switch the temperature units, degrees C or degrees F.

7

Auto Power Off

When the instrument is turned on, the symbol ⏻ is displayed, and the automatic shutdown function is turned on by default. When no operation within 5 minutes, no detection signal, the instrument will automatically shut down.

If you need to cancel the automatic shutdown function, press key APO ,screen do not show the symbol ⏻, then cancel the automatic shutdown, press again to open.

Specifications

9

- Sensor：Gas-sensitive semi-conductor
- Response Range: about 50PPM~1000PPM (Methane)
- Sensitivity: > 50 PPM (methane)
- Test Gas (part list)：
  Acetone, Acetylene, alcohol, ammonia, benzene, butane, ethanol, oxirane, gasoline, hexane, hydrogen, methane, naphtha, natural gas, paint thinners, propane, solvents, etc.
- Warm-up time: About 30 seconds
- Response Time:
  <=500PPM: Approx. 5sec
  >500PPM: Approx. 2sec
- Alarm mode: Buzzer and indicator light
- AMBIENT TEMPERATURE TESTING:

10

Range: -20.0°C ~ 60.0°C(-4.0°F~140.0°F)
Precision: 0.0°C ~ 45.0°C(32°F ~113°F)
±2.0℃/4.0°F
Other: ±3℃/ 6.0°F
Resolution:0.1 /1

- Ambient humidity test:
  Range: 0.0% ~99.9%RH
  Precision：20%~ 80%：±5.0%RH
  Other: ±6.0%RH
- Operating conditions: 0~ 50°C / 20~ 80%RH
- Storage conditions: -10~ 60°C / 20~80% RH
- Batteries: 3x1.5V AAA Alkaline battery

Maintenance

Change the Battery

When the instrument shows”🔋”symbol,

11

please replace the battery in time

1. unscrew the battery cover, then unscrew the battery cover.Remove the battery from the battery compartment.
2. Install the new battery correctly according to the positive and negative battery mark on the bottom of the battery Bin.
3. Replace the battery cover and tighten the screws to secure it in place.

Maintaining the Product

- Clean the sensor head:
  If dirty, clean the sensor head with a soft dry cloth.
- Cleaning the housing:
  If dirty, clean the housing with a damp cloth

12

(soap solution). Do not use aggressive cleaning products or solvents!

13

HTC™ INSTRUMENTS

EMC&LVD RoHS CE