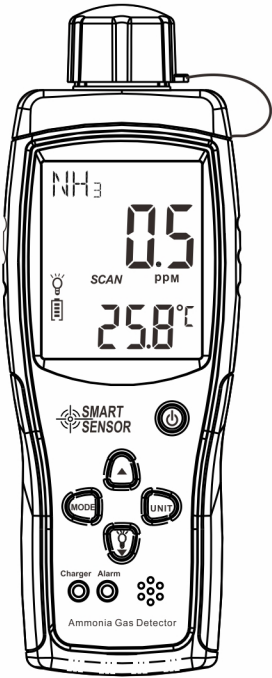


Ammonia Gas Meter
User Manual



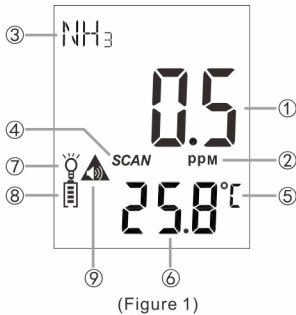
Introduction

Ammonia Gas Meter is a special instrument to detect the concentration of Ammonia gas. It use electro-chemical type gas sensor for precision detection. High sensitivity and can setup high and low alarm, alert with bi-bi sound and red light. Applicable at home, Farming, decoration and mining etc.

1. Specification

Production specification	
Detection Gas type	Ammonia
Measurement range	0~100ppm
Resolution	0.1ppm
Accuracy	±10%
Temperatur range	-10℃~50℃
Response time	T90 ≤120 sec.
Repeat time	≤120 sec
Working principle of sensor	Electro-Chemical type, Two Year life
LCD Panel	TN Segment type LCD panel
Alarm Type	Acoustic and light dual alarm
Power Supply	3.7V Lithium Rechargeable battery
Operation time	>60 Hours (Continue working hour)
Operation environment	-10~ 50℃, <95% RH (non-condensing)

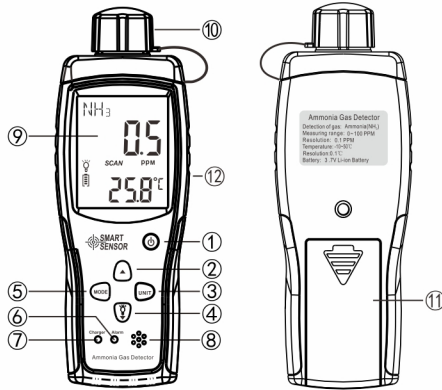
2. Explanation of the LCD panel



(Figure 1)

- 1) Ammonia Gas concentration display area
- 2) Gas concentration unit
- 3) Chemical formula of Ammonia
- 4) Measurement sign
- 5) Temperature unit.
- 6) Temperature measured value area
- 7) Back light On icon
- 8) Battery power indication
- 9) Acoustic alarm on icon

3. Outlook description

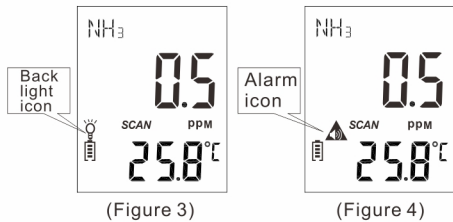


(Figure 2)

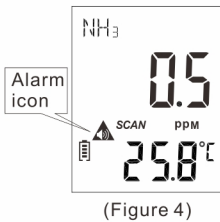
- 1) Power On/Off button
- 2) increment (▲) / alarm button
- 3) Temperature unit conversion button
- 4) Decrement (▼) / backlight button
- 5) Mode button
- 6) Alarm indicator
- 7) Battery charging indicator
- 8) Buzzer holes
- 9) LCD display panel
- 10) Gas sensor
- 11) Battery door
- 12) Charging port

4. How to operate it.

- Install battery: Push the battery cover downwards to open it and put Lithium battery in.
- Power on: Press the "φ" key to power it on, LCD display will display the "NH3 (Gas name) then go to 10 second pre-heat count down mode, if you press the "φ" key again, you can skip pre-heat mode and directly go into the normal stage of measurement.
- Power Off: Long depress "φ" key to turn off the unit.
- Backlight on/off You can switch the backlight of LCD display on or off by press the "V" button. When back light on the back light icon display as (figure 3) shown.
- Alarm Sound: Depress "▲" key can turn the alarm sound "On" or "Off". When alarm sound turn on the icon will be display as (figure 4) shown.

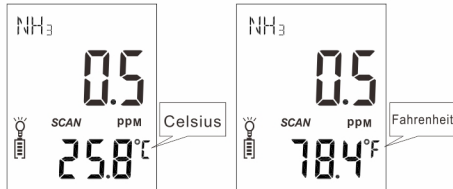


(Figure 3)

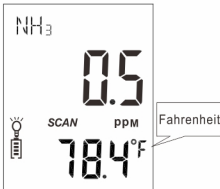


(Figure 4)

- Temperature unit: depress "UNIT" key once will select the "C"/"F" in sequential. At the same time you can find the change of the "C" or "F" display at the LCD panel as (figure 5) or (figure 6) shown.



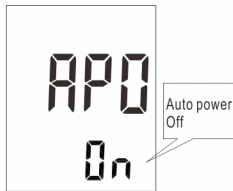
(Figure 5)



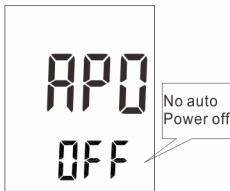
(Figure 6)

- Turn on the auto power off function: At normal measurement mode long depress the "MODE" key until the LCD shown "APO" and blinking

"ON" or "OFF" wording. Depress "V" or "▲" key to select "ON" or "OFF", "OFF" means no auto power off function, "ON" means auto power off function activated, unit will power off after 10 minute if no any key in detected. Depress "MODE" key back to normal measurement mode.

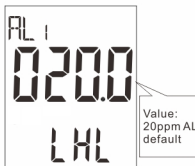


(Figure 7)

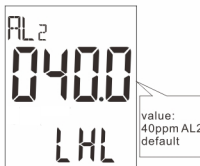


(Figure 8)

- How to set up the alarm level for the meter. In the measurement stage ("SCAN" blinking), press the "MODE" key will enter the setup mode, the default level is AL1, step as following. First step: Alarm 1 (AL1) setup: press "▲" or "V" key to set the value from 0-9, press the "UNIT" key to choose the digit position, press the "MODE" key to save AL1 value, and then enter the AL2 alarm value settings, press "▲" or "V" key to set the value from 0-9, press the "UNIT" key to choose the digit position. Second step: Depress "MODE" key change to AL2 setup, the procedure as AL1 shown. Third step: Depress "MODE" key to save all the alarm value and return to normal measurement mode.



(Figure 9)



(Figure 10)

5.Special notice

- This meter is a precise measurement apparatus. To avoid damaging of the meter, keep it away from water and hot objects (more than 50 °C).
- If you find the battery power indicator become empty [], please charge the unit immediately, after charge finished you can continue to use it again.

- If the meter will be measure for a long time, please turn off the backlight to save the power consumption and prolong the service life of the battery.
- The meter is automatically power off if no button is pressed in 10 minutes.
- When the buzzer alarms, the measured value is less then the alarm level that you preset, so please take care to protect people's life and property.
- If you don't plan to use the meter for a long time, please turn off the meter and remove the battery to avoid the battery leakage.
- The sensor is high precision parts. When in use must be careful to protect it, don't dirty or broken it, This component cannot be repair, not in warranty scope.
- If you don't plan to use the meter for a long time, please put the cover back to gas head to protect the gas sensor .

6. Appendix

Ammonia gas harm to human body and safety protection	
Concentration	General reaction and pseudo-impact on the human body
5 ppm	Bad smell feeling, some people feel body uncomfortable.
20 ppm	Most people have a clear sense of excitement, but not harmful
20~30 ppm	Safety depreciation of time weighting
100 ppm	Most people have discomfort feeling, but not harmful
250 ppm	Irritating nose, throat, eyes and other organ
400 ppm	painful of eyes, after 30 minutes tears of eye.
700 ppm	The limitation of human body, leave this environmental immediately.
2500 ppm	Severe cough, irritating nose, throat, etc., may be death after 15 minutes.
5000 ppm	Cause spastic dyspnea, suffocation, rapid death

* Above for reference only

Special declaration

- You, as the end user, are legally bound (Battery ordinance) to return all used batteries and accumulator: **disposal in the household garbage is prohibited** You can hand over your used batteries / accumulators at the collection points in your community or wherever batteries / accumulator are sold!
- Disposal:** Follow the valid legal stipulations in respect of the disposal of the device at the end of its life cycle.
- Our company to reserve the right to modify and update the content of this manual and design specification without further notice.