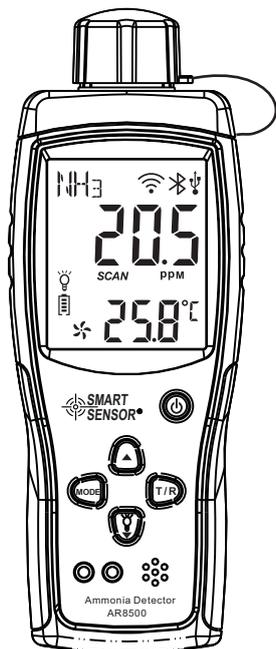


MODEL: AR8500

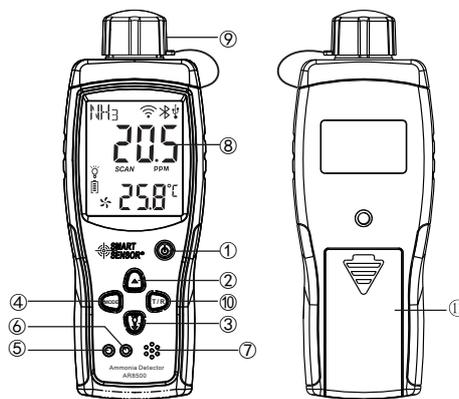
Ammonia gas detector Instruction manual



As this device is an intellectual precise measurement apparatus, it is very important that you read through these instructions before using this device.

1.Explanation of the appearance

- ① ⏻ :ON/OFF
- ② Decrement button(▲)
- ③ Increment button / backlight (▼🔦)
- ④ MODE : Measurement mode button
- ⑤ The first siren (Blue indicator)
- ⑥ The second siren (red indicator)
- ⑦ Buzzer
- ⑧ LCD Display
- ⑨ Sensor
- ⑩ T / R: Temperature / relative humidity button
- ⑪ Battery compartment cover



2. Product description:

Ammonia analyzer is a continuous quantitative analysis of formaldehyde concentration apparatus, the apparatus using imported high precision electrochemical principle formaldehyde sensor, fast response speed, high precision, of its stability, good repeatability;
The apparatus is widely used in metallurgy, power plant, farms, mines, chemical, scientific research, medical, pharmaceutical, environmental protection and other fields.

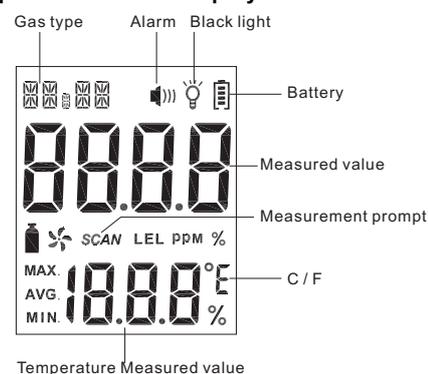
Ammonia concentration detector, gas detector, gas leak detector

The concentration of ammonia in atmosphere	Human physiological reaction
5 ~ 10ppm	The nose may be aware of the smell.
20 ppm	Aware of the special smell of ammonia.
40ppm	A few people feel mild stimulation of eye.
100ppm	A few minutes of exposure caused by ocular and nasal quite stimulating.
400ppm	Cause throat, nasal cavity and upper respiratory tract acute stimulation.
700ppm	Exposure for more than thirty minutes may cause permanent damage to the eye.
1700ppm	Severe cough, wheeze thirty minutes can be fatal.
5000ppm	Severe pulmonary edema disease, a moment can be fatal asphyxia.

3.Characteristics of the instrument:

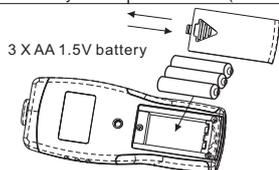
- Adopt imported abroad electrochemical sensor
- Big screen for multiple parameters of LCD backlight display, visual display unit, gas concentration, working state
- The two grade dual alarm settings, the outstanding audio sound alarm, voice of up to 80 dB
- The service life of the sensor : 2 years(it can be replaced)
- Power supply : 3X1.5V AA battery
- Battery service life : about 100 hours of continuous use (when the backlight is off).
- Size : 182*66*32(mm)

4.Explanation of the display



5. Technical parameters:

Detection of gas:	Ammonia (NH ₃)
Measuring range:	0~100PPM
Resolution:	0.1PPM
Basic error:	0.5PPM
Response time:	Less than 120 seconds
Recovery time:	Less than 120 seconds
Repeatability:	Less than ± 1%
The principle of sensor:	Electrochemical principle, life for two years
Battery:	3 X 1.5V AA Battery
Display:	Large screen liquid crystal display
To alarm:	Acoustic, optical double alarm, can set the alarm value, an alarm sound is divided into 80 dB
Working temperature:	-20 ~ 50 °C
Working humidity:	0-95%RH (Non Gel)



6.How to operate it

- a. Push the cover downwards to open it and put new 3 X 1.5V AA battery in.
- b. Power on/off
Press the "⏻" to power on
- c. Backlight On/Off
You can switch the backlight on or off by slightly touching the "🔦"
- d. How to set up the alarming grade for the meter
In the measurement of "SCAN" state, press the "MODEL" keyboard will enter setup state, the default into the first is 4 level alarm value settings, according to the up ▲ and down ▼🔦 key, set 0 ~ 9 number, press the "T/R" choice set bit. press the "MODEL" key, save 4 level alarm value, and enter the 2 level alarm value settings, according to the up ▲ and down ▼🔦 key, set 0 ~ 9 number, press the "T/R" choice set bit. then click "MODEL" key, save 2 level alarm value, and return to boot measuring state "SCAN".

(the factory default Settings value is: 4 level alarm value is 20 PPM, 2 level alarm value 40 PPM)

e.Meter alarming

The meter alarming when the meter measurement value is less than the preset value .The buzzer alarming and the green indicator flickers when the meter measurement value is less than the value preset for the grade 4 alarming-line ; and the buzzer alarms and the red indicator flickers when the meter measurement value is less than the value preset for the grade 2 alarming-line.

8.Attentions:

- 1). This meter is a precise measurement apparatus. To avoid damaging the meter , keep it away from water and hot objects (more than 60).
- 2). If the meter will be measuring for a long time , please turn off the backlight to save power consumption and prolong the service life of the battery.
- 3). When "🔋" is displayed , the battery is fully ; the small black frame in the battery sign reduces as the battery power volume reduces . When "🔋" is shown the meter cannot work normally . Please promptly replace. First turn off the meter , then take out the unused battery and put new battery in.
- 4). The meter is automatically power off if no button is pressed in 10 minutes.
- 5). When the buzzer alarms , the measured value is less then the alarming-line you have set up ; so please take measures to protect people's lives and property.
- 6). If you don't plan to use the meter for a long time, please close instrument and remove the battery to avoid the battery exudates damage.

Application:

- Farms, animal farm ammonia detection;
- Ambient air monitoring and evaluation,
- Landfill ammonia detection;
- Frozen field ammonia concentration;
- Dangerous space into the detection;
- Shop and workshop etc and the surrounding places ammonia detection;
- After decorating the house ammonia detection;
- Storage tanks, pipelines, valves, leakage detection;
- Waste field survey;

9. Pay special attention to

The Sensing tip is high precision parts, when in use must be careful to protect, don't dirty broke. this component cannot repair, not in warranty scope.