



Model: AR8800A+

Combustible gas detector Instruction manual



1. Introduction

This instrument provide combustible gas detection with rechargeable battery and charger. It is excellent apply on any situation of combustible gas or vapor or residue for pinpointing known leaks, checking for leaks and verifying safety of potential hazardous locations. Some application are:

- A. Gas lines and pipes
- B. Propane gas refill station
- C. Fuel in marine bilges
- D. Exhaust and fuel leaks
- E. Check manholes for safety

Note: Although the unit will respond to high levels of Carbon Monoxide, it should not be used as a detector for this gas in normal room or working atmospheres. It used to pinpoint a leak as described in the Operating instructions.

2. How it works

Afer the automatic warm up, when the sensor of the instrument detected vaporous & gasiform combustible compound, the signal variate as the increase tick rate with LED will light up to located the combustible leaks. That help the user to take effective reaction to clear potential hazard.

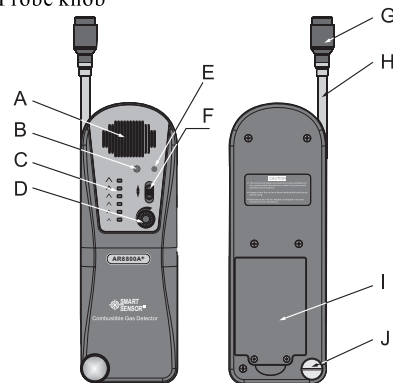
3.Feature

- 3.1Leak size indication(Audial and Visible)
- 3.2Auto fast warm-up
- 3.3Adjustable sensitivity
- 3.4Low battery indication
- 3.5Rechargeable battery

- 3.6Charge protection of overcharge, over-current
- 3.7Double color LED indicate charge state

4.Diagram and description

- A. Speaker
- B. Charge state indicator
- C. Leak size indicator---the larger the concentration, the more LED will light.
- D. Sensitivity adjust knob---turn clockwise to increase sensitivity, turn counter clockwise to decrease sensitivity.
- E. Power indicator---LED blinking indicate low battery, please turn off and recharge the battery.
- F. ON/OFF switch
- G. Sensing tip
- H. Flex probe
- I. Battery compartment---Unscrew to open battery door, and install the battery properly.
- J. Probe knob



(Figure 1)

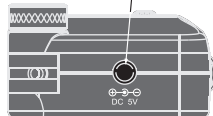
5. Operation instruction

- 5.1 Turn the unit off and the sensitivity knob fully counter clockwise.
- 5.2 Turn the unit on in a non-contaminated atmosphere by slide the switch to ON, the power indicator will be lit. Power indicator keep on light show the battery power is sufficient, it ensure the unit precise detection.
- 5.3 After turn on, the unit will auto warm-up within 110 sec, a ticking sound will be heard.
- 5.4 Adjust the sensitivity control until the first leak indicator light up, and the ticking frequency increase.
- 5.5 Approached the sensor to a know leak source, the leak size indicate lights will increase with the rapid ticking. Above steps to ensure the unit working correctly, now the unit are ready to use. If the battery power in sufficient state but the sensor approach a know leaks without any responses, do not use the instrument, please return for repair.
- 5.6 In conjunction with the increased tick rate, the leak size indicator will light from down to top as a larger combustible conc-entrations.
- 5.7 Search the general area of the leak. When a detectable compound enters the sensor, the tick rate speed up.
- 5.8 If you are searching for a heavy leak source, please lower the sensitivity in a clear air by turning the adjustable knob(until the leak size indicator turn off).
- 6 To charge battery:
- 6.1 During operation, if the power indicator is

blinking, it is necessary to charge the battery.
6.2 Install the battery into battery compartment properly, cover battery door and fasten screws.

- 6.3 Turn off the instrument, connect the charger into a power socket of 100-240V,50/60Hz and insert the plug into the jack on the bottom of the instrument. The charge indicator turn into red indicate the battery power is low and still under charge.(a new battery need to be charge 16 hours before using).
- 6.4 When the charge indicator turn red into green means the battery is fully re-charged, please take off the charger.

When re-charge the battery,insert the plug into the jack of the instrument



(Figure 2)

Note:

- A. Battery must only be charged or replace in an area known to be no-hazardous. Make sure the charger plug is completely plugged into the unit.
 - B. Turn off the unit when replace the battery.
 - C. Do not short circuit the metal pieces of the battery.
 - D. Don't clean the sensor probe to avoid the water, oil stain,dust entering into probe.(important)
- ## 7. Cautions

- 7.1 Do not use the instrument in an area of extremely high level of combustible gas.
- 7.2 The gas/vapor of organic solvent might interfere the function of the unit. During detection,please eliminate the influence of the organic solvent.
- 7.3 In order to ensure correct operation and indication, the unit should be switched on and warm-up in non-contaminated atmosphere.
- 7.4 A new battery or the instrument have been not use for a long time need to be re-charge before using.
- 7.5 Do not charge the battery over 12 hours.
- 7.6 If the red indicator is blinking during charging, check the metal pieces of the battery contact well or not. If not the problem,that means the temperature of battery overtop standard please charge it later.

8. Specification

Specification	
Detect item	Combustible gas
Sensitivity	Variable, minimum 5ppm(gasoline)
Response time	Instantaneous
Warm up time	about 60 sec(in 25℃, 60%RH)
Continuous operation time	5hours(lightly vary with operation)
Low battery indication	3.2V±0.2V
Operation temperature	0 to 52℃(0 to 110°F)
Power supply	1200mAh,3.7V lithium rechargeable battery
Weight/Size	405 g ; 235 x 86 x 46 cm
Standard accessory	PP box*1 Charger (DC 5V 500mA)*1

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