

Model: AR5750B

SF6 Gas Leak detector Instruction manual



Verion:SZ5750B-1-00

5. Operation instruction

- 5.1 Turn the unit off put the battery then turn the sensitivity knob fully counter clockwise.
- 5.2 Turn the unit on in a non-contaminated atmosphere by slide the switch to ON position, 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 6 sec, a ticking sound will be heard.
- 5.4 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.
- 5.5 In conjunction with the increased tick rate, the leak size indicator will light from down to top as a larger gas leaks.
- 5.6 Search the general area of the leak. When a detectable compound enters the sensor, the tick rate speed up. Speed at 25-50mm/s, not far away from the surface distance 5mm. When refrigerator came into the sensor, the ticking frequency will increase.
- 5.7 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

This rechargeable refrigerant gas detector respond to all halogenated refrigerant, but also apply to :

- A. this was response to all halogenated refrigerant (including chlorine and fluoride) .
Including but not only limited to below.
CFCs e.g. R12, R11, R500, R503 etc...
HCFCs e.g. R22, R123, R124, R502 etc...
HFCs e.g. R134a, R404a, R125 etc...
Also can detect compound gas for example AZ-50, HP62, Mp39, etc...
- B. Detect caryophyllene oxide gas leaks in hospital equipments.
- C. SF6 gas was detected in high voltage circuit shot cut..
- D. Detect halogen gas when gas mixing with, chlorine, fluorine, bromine.
- E. Detect carbon tetrachloride from the dry cleaning machine.
- F. Detect the halon gas from the fire extinguisher.

2. How it works

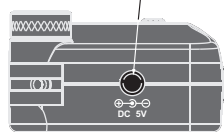
After the probe warm up, when the sensor of the instrument detected halogen, the signal variate as the increase tick rate with LED will light up to located the halogen leaks. That help the user to take effective reaction to clear potential hazard.

3. Feature

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

- linking, 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 220V 50Hz and insert the plug into the jack on the bottom of the instrument. The charge indicator turn into green 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.
- 6.5 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)

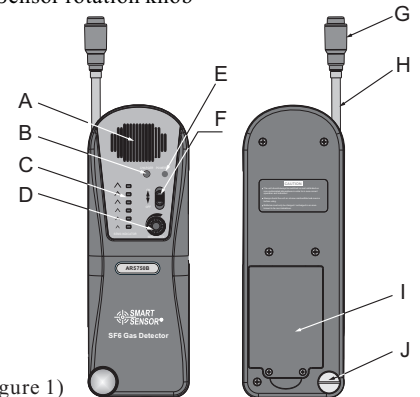
7. Note:

- 7.1 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.
- 7.2 Turn of the button to " off " positio when replace the battery.
- 7.3 Avoid battery metal short - cut.

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

4. Diagram and description

- A. Speaker
- B. Charger 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. If need to rotate the probe, please unfasten probe knob
- I. Battery clip---unfasten the screw put the battery correctly according the polar.
- J. Sensor rotation knob



(Figure 1)

- 7.4 Avoid the probe away from the water, oil, dust, clean it with dry mop.
- 7.5 Do not use the instrument in an area of extremely high level of combustible gas.
- 7.6 The gas/vapor of organic solvent might interfere the function of the unit. During detection, please eliminate the influence of the organic solvent.
- 7.7 In order to ensure correct operation and indication, the unit should be switched on and warm-up in non-contaminated atmosphere.
- 7.8 A new battery need to be charge when indicate full battery.
- 7.9 Do not charge the battery over 12 hours.
- 7.10 Need turn off the power when replace the probe.

8. Specification

Specification	
Detect item	All halogen gas
Sensitivity	Halogen refrigerant gas 3 gr / yr
Response time	Instantaneous
Warm up time	< 6 second
Continuous operation time	5 hours (slightly vary with operation)
Low battery indication	3.3V ± 0.2V
Operation temperature	0 to 52°C (0 to 110°F)
Power supply	2000mAh, 3.7V lithium rechargeable battery
Weight/Size	405g ; 235 x 86 x 46 mm
Standard accessory	PP box * 1 Power Adapter (DC5V 500mA) * 1
Sensing tip	✓

