

UT336A Refrigerant Leak Detector Quick Start Guide

PREFACE

Thank you for purchasing the new UT336A refrigerant leak detector. In order to use this product safely and correctly, please read this guide thoroughly, especially the Safety Instructions part.

After reading this guide, it is recommended to keep the guide at an easily accessible place, preferably close to the device, for future reference.

LIMITED WARRANTY AND LIABILITY

UNI-T guarantees that the product is free from any defect in material and workmanship within one year from the purchase date. This warranty does not apply to damages caused by accident, negligence, misuse, modification, contamination and improper handling. The dealer shall not be entitled to give any other warranty on behalf of UNI-T. If you need warranty service within the warranty period, please contact your seller directly.

This warranty is the only compensation you can obtain. UNI-T will not be responsible for any special, indirect, incidental or subsequent damage or loss caused by any reason or speculation. As some areas or countries do not allow limitations on implied warranties and incidental or subsequent damage, the above limitation of liability and stipulation may not apply to you.

1. Introduction

UT336A is a negative corona electronic leak detector, features of rapid response, high-accuracy leak detection, high reliability, easy-to-use, and etc. It is widely used in refrigeration industries using refrigerant, such as the air conditioner maintenance, car maintenance, refrigeration unit detection, refrigerator maintenance, and etc.

2. Features

- With high sensitivity, and minor leak can be detected.
- Sensitivity adjustment in six levels, suitable for multiple scenarios with different leak concentration.
- Audible and visual alarm in six levels, with intuitional indication of LED in yellow, orange and red.

3. Configurations

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Safety Guideline -----1


AA Alkaline Battery ----- 4


Auxiliary Probe -----1

Please contact agency if any components are missing or damaged.

4. Safety

Please read the Safety carefully and follow these steps.

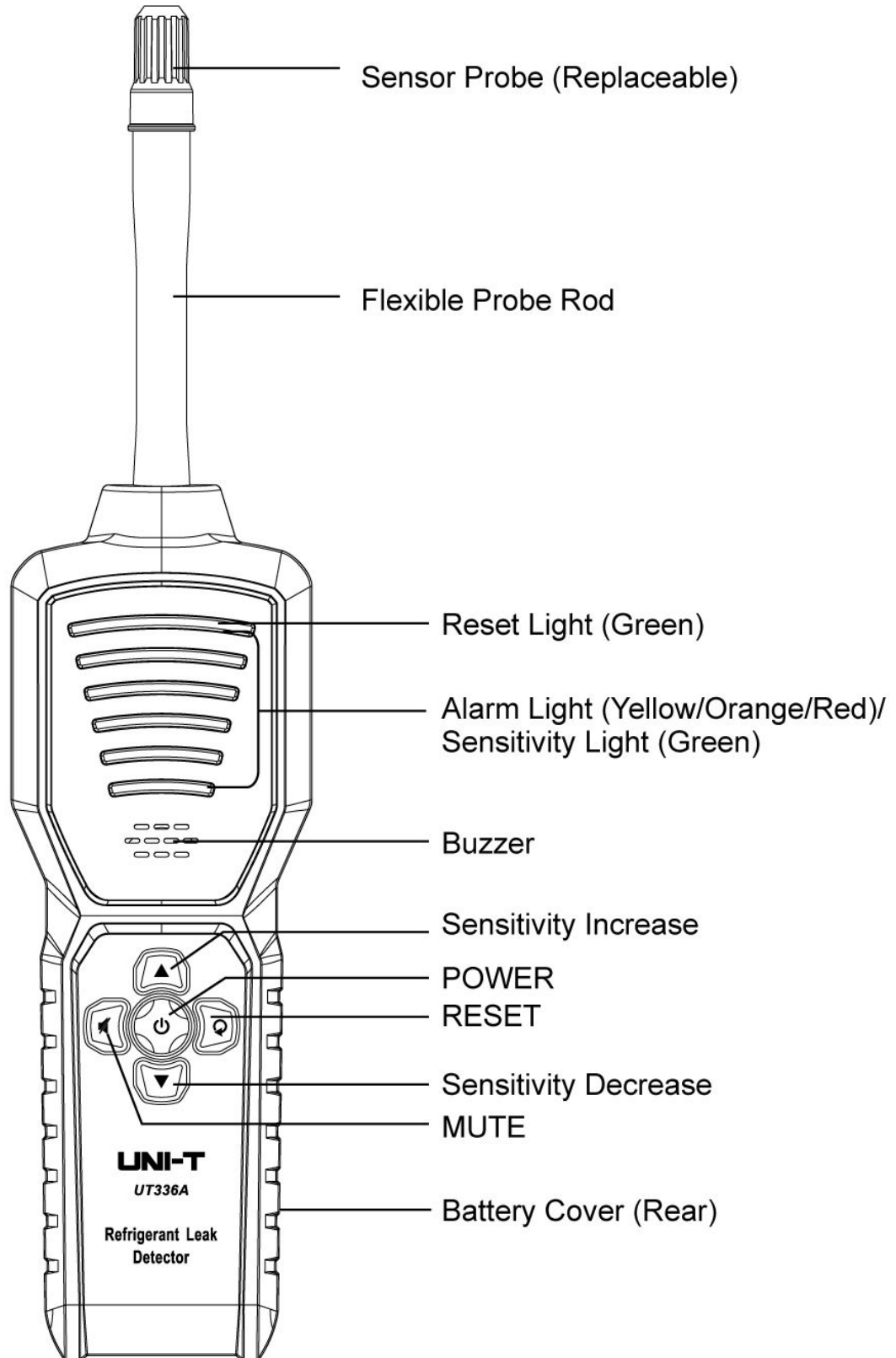
 "Warning" identifies possible conditions and operations that are dangerous to the user.

 "Caution" identifies some elements that can cause damage to the product or the device under test.






- Store the meter in a dry and clean place.
- Replace the battery in time when the red light of POWER button is on or flashing, ensuring the proper use and test results of detector.
- Pay attention to the probe cleaning, to avoid the dust, moisture and oil into it.
- Use cotton cloth or dry gas to clean the outside of soiled probe. Soaking the probe in the pure alcohol for a few minutes if the probe itself is dirty, then use compressed gas to dry or cloth to wipe. Notes: Do not use strong dissolving agent to prevent the detector sensitivity inaccuracy, such as the Gasoline, Vaseline, Mineral oil, etc.
- Power off the device before replacing the probe to avoid the electric shock caused from the probe.

5. Components & Buttons

1) Components

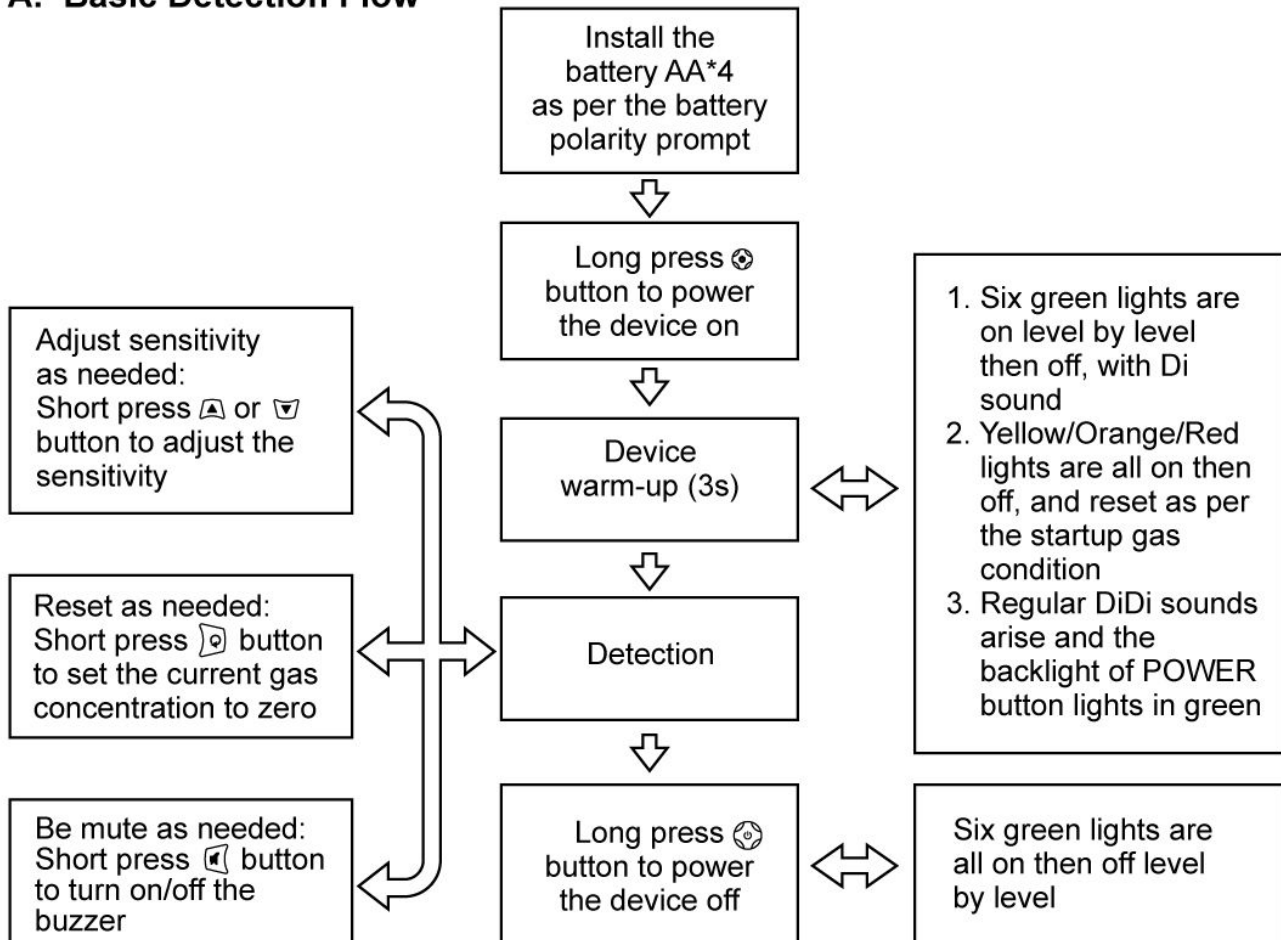


2) Buttons

Buttons	Short Press	Long Press	Lights
 Sensitivity Increase	The detection sensitivity is increased	/	Green light is on level by level
 POWER	/	Power on/off	Full battery: Backlight in Green Low battery: Backlight in Red Depleted battery: Flashing in Red
 RESET	Set the current gas concentration to zero	/	Green light is off after 2s on
 Sensitivity Decrease	The detection sensitivity is decreased	/	Green light is off level by level
 MUTE	Buzzer ON/OFF	/	/

6. Operations

A. Basic Detection Flow

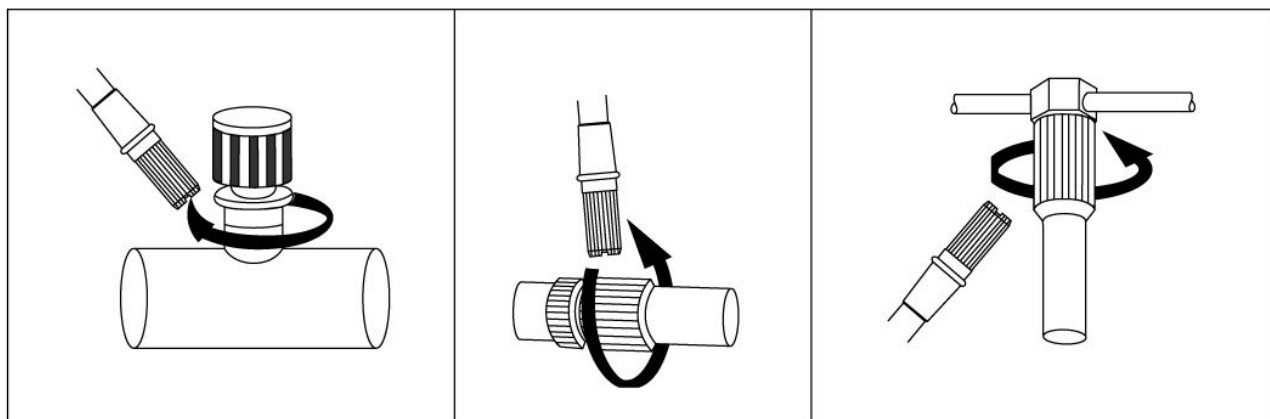


Notes:

- a. The default sensitivity of device is level 3.
- b. Short press the RESET button to set zero if it is alarming before the leak location is detected.
- c. When the refrigerant is detected, there will be with Di sound increasing in frequency, and alarm lights in Yellow/Orange/Red are on level by level as per the leak concentration.

B. Detection Methods

1. Visually inspect the refrigerating system to check if any oil and dust on the pipeline, any leak on the valve, copper welding spot or pipeline.
2. Move the probe to carefully check every possible area, and the speed of moving probe is $\leq 1\text{cm/s}$, and the probe distance should be kept in 1-3mm. See followings:



3. ① Alarming of device identifies the approaching leak location, repeatedly detect the surroundings to check if any repeat alarm occurred.
- ② When the leak location is ensured, move the probe from different directions of non-alarm area to the alarm area to locate the leak source.
- ③ Move the device away from the leak area, then reset the device and gradually decrease the sensitivity to repeatedly locate the concrete leak source.
- ④ Mark it down then go on the detection for other parts of the whole refrigerating system when the leak location is concreted.

Notes:

- a. The detection will also be effected by other pollutants, using dry cloth to cleanly wipe and dry air to blow the leak area before the redetection to avoid any inaccuracy, and then repeatedly detect to find the leak location.
- b. Oil and dust is existed in most of leak conditions, we should prevent the probe from contacting any pollutants, any moisture or other solvents
- c. Following is for the obvious leak detection:
 Firstly, use compressed air to blow and clean the potential leak area, and repeatedly detect to locate the correct leak location. Secondly, move the probe to the environment with fresh and clean air to reset, then put the probe to the surrounding of leak location, moving probe slowly to locate the leak source.
- d. Three main types of halogenated (Chlorine & Fluorine included) refrigerants of the refrigerating system and containers can be detected by the device:
 CFCs R11, R12, R13, R14, R15, R500, R502.....
 HCFCs R22, R123, R141,R142.....
 HFCs R134a, R125, R32, R410A.....

7. Troubleshooting

Troubles	Reasons	Solutions
Fail to enable the device	Depleted battery	Replace the new battery
No response to the known leak source	Burn-in probe of sensor	Replace a new sensor probe
False alarm but no leak source	Humidity changed in the atmospheric condition	Press RESET button to reset to zero

Replace a new one to ensure the high performance of probe after a long-time use. Probe life is related with the using frequency and using condition, so it is hard to estimate the replacing time of probe. It's time to replace a probe when it is alarming or unstable in the clean air.

⚠ Warning: Power off the device before replacing the probe to avoid the electric shock caused from the probe.

- * Please visit <https://www.uni-trend.com> for details.
- * The contents of this manual are subject to change without prior notice.
- * Due to different batches, the materials and details of actual products may be slightly different from the graphic information, please refer to the actual product received. Experimental data provided in the page is from internal laboratory of UNI-T, but it should not be a reference for customer to place orders. Any questions, please contact the customer service, thanks!

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