

Air Condition Leakage Tester



SPECIFICATIONS

- adjustable sensitivity
- battery life: 30 hours under normal condition
- working temperature: 0°C ~ 52°C
- working mode: Continuous and no limit
- short reaction time
- resetting time: 2 seconds
- warm-up time: about 6 seconds
- size: 22.9 x 6.5 x 6.5 cm
- weight: 560 grams
- power supply: 3V DV (2x 1,5V)
- probe length: 35.5 cm

INTENDED USE

The electronic leak detector simplifies leak detection on cars, trucks, and suitable for other air conditioning systems and is suitable for refrigerant: R134a, R12, R11, R500, R503, R22, R123, R124, R502, R404a, R125, AZ 50, HP62, MP39. The device is adjustable in sensitivity and has a visual and audible signal upon detection of a leak.

ATTENTION

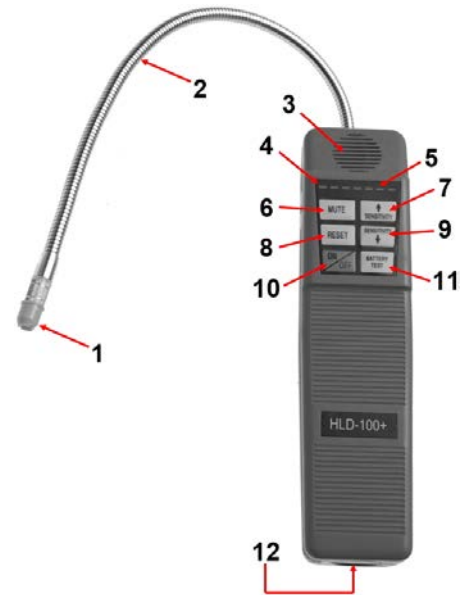
Read the operating instructions and the included safety informations carefully before using the product. Use the product correctly, with caution and only for the intended purpose. Failure to observe the safety informations can lead to damage, injury and voiding of the warranty. Please keep these instructions in a safe and dry place for future reference. Include the operating instructions if you pass the product on to third parties.

SAFETY INFORMATIONS

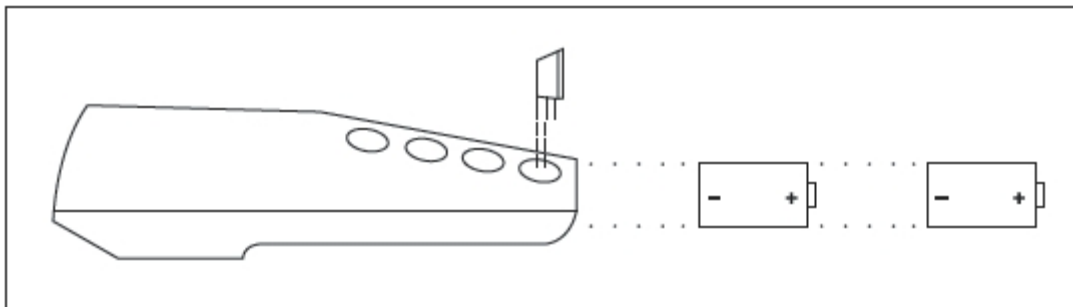
- Always read the instructions carefully before using the product.
- Follow the manufacturer's specifications. This manual is supposed to inform you about the tool itself and does not replace specific servicing handbooks.
- Keep children and unauthorized persons away from the working area.
- Do not let children play with this tool or its packaging.
- Ensure the working area has adequate lighting
- Keep working area clean and tidy, dry and free from unrelated materials
- Do not allow untrained persons to use this tool kit
- When working on air conditioning systems, always wear face shield, protective gloves and apron which are required and suitable for working on air conditioning systems.
- Do not loosen connections, as long as the conditioning system is pressurized.
- Work on air conditioning systems may be only performed by trained persons.
- Do not allow untrained persons to use this product.

COMPONENTS

- 1 Sensor
- 2 Goose Neck
- 3 Buzzer
- 4 Battery Indicator (LED)
- 5 Concentration Indicator
- 6 Mute
- 7 Higher Sensitivity
- 8 Reset
- 9 Lower Sensitivity
- 10 ON / OFF
- 11 Battery Check
- 12 Battery Compartment



BATTERY



Note: please properly fix the battery according to the picture above.

BATTERY INDICATION

The leftmost LED is the indicator for the two-colour voltage.

Green = Battery voltage is normal, sufficient for proper operation.

Orange = Battery voltage is approaching the lower threshold for operation, replace as soon as possible.

AUTOMATIC CIRCUIT/RESET FEATURE

This item features an Automatic circuit and a Reset function key that set the unit to ignore ambient concentrations of refrigerant.

- Automatic circuit: Upon initial power on, the unit automatically set itself to ignore the level of refrigerant present at the tip. Only a level, or concentration, greater than this will cause an alarm.
- Reset Feature: Pressing the RESET key during operation performs a similar function. When the RESET key is pressed, it programs the circuit to ignore the level of refrigerant present at the tip.

The unit can be moved to fresh air and reset for maximum sensitivity. Resetting the unit with no refrigerant present (fresh air) causes any level above zero to be detected.

Whenever the unit is reset, the LED (except the leftmost power indicator) will all turn off.

NOTE

Make a leakage test after any repair or service of climate systems.

SENSITIVITY ADJUSTMENT

The unit features sensitivity adjustment and can be adjusted during the course of detecting.

Press the button (▲ Sensitivity) causes an increase of sensitivity.

Press the button (▼ Sensitivity) causes an decreases of sensitivity. It does not mean, when to select, the higher the flexibility is adjusted, the better the unit will work, because if the air is not fresh, selecting higher flexibility will cause an improper alarm.

LEAK ALARM

When the leaked gas is detected, the buzzer will respond loudly according to the leaked quantity and the number of the leak indicators will change as well.

OPERATING INSTRUCTIONS

1. Switch the unit on by pressing the ON/OFF key. The leftmost indicator will light with intermittent humming noise.
2. Verify the battery level by observing the constant power indicator.
3. Select appropriate sensitivity and the unit can be adjusted at any time, which does not interrupt detection.
4. Press RESET key to detect 6 seconds later after the unit is switched on.
5. Please reset the unit far away from the leak source so as to ensure the unit to detect accurately with firm reliability.

OPERATING TIPS

- Adjust the sensitivity up, only when a leak can't be found. Adjust the sensitivity down only when resetting the unit does not allow you to "home in" on the leak.
- When the buzzer alarms for leak, if the probe is remained at the part being detected long enough, the circuit will equalize it.
- In areas that are heavily contaminated with gas, the unit may be reset to block out ambient concentrations of gas.
- In windy areas, even a large leak can be difficult to find. Under these conditions, it its best to shield the potential leak area.
- Be aware that the detector may alarm if the sensing tip comes in contact with moisture and/or solvents, therefore, avoid contact with these when leak checking.

RECOMMENDED PROCEDURE (Part 1)

Note: On Automotive A/C Systems leak test with the engine not in operation.

1. The air conditioning or refrigeration system should be charged with sufficient refrigerant to have a gauge pressure of at least 340 kpa (50 psi) when not in operation. t temperatures below 15°C (59°F), leaks may not be measurable, since this pressure may not be reached.
2. Take care not to contaminate the detector probe tip if the part being tested is contaminated. If the part is particularly dirty, or condensate (moisture) is present, it should be wiped off with a dry shop towel or blown off with shop air. No cleaners, or solvents should be used, since the detector may be sensitive to their ingredients.
3. Visually trace the entire refrigerant system, and look for signs of air conditioning lubricant leakage, damage, and corrosion on all lines, hose, and components. Each questionable area should be carefully checked with the detector probe, as well as all fittings, hose to line couplings, refrigerant controls, service ports with caps in place, brazed or welded areas, and areas around attachment points and hold-downs on lines and components.
4. Always follow the refrigerant system around in a continuous path so that no areas of potential leaks are missed. If a leak is found, always continue to test the remainder of the system. At each area checked, the probe should be moved around the location, at a rate no more than 25 to 50 mm/second and no more than 5 mm from the surface, completely around the position, which could reach the best effect and when there's a rapid buzzing noise, it means the leak point is found.

RECOMMENDED PROCEDURE (Part 2)

5. At this time, the instrument should be moved away and be readjusted to appropriate position so as to locate the specific leak point.
6. An apparent leak shall be verified at least once as follows:
 - a. Blow shop air into the area of the suspected leak, if necessary, and repeat the check of the area. In cases of very large leaks, blowing out the area with shop air often helps locate the exact position of the leak.
 - b. First move the probe to fresh air and reset. Then hold the probe tip as close as possible to the indicated leak source and slowly move around it until the leak is confirmed.

NOTE ON CAR AIR CONDITIONERS

Leak testing of the evaporator must be with switched on fans before. Testing as follows: Start the engine, air-conditioning and blower fan on and let run at the highest level for 3 min.. Air conditioning and engine off, leave the blower fan for about 15 seconds at the highest level and then switch off. The leak detector probe tip through the opening of blower resistor and vents introduce into the blower / evaporator housing. Make sure that the blower / evaporator housing is dry to avoid false readings. In case of leakage the item will be sounds a alarm.

MAINTENANCE

Appropriate maintenance to the unit is really very critical and please carefully follow. The instructions below in order to reduce performance problems and enhance the life of the unit.
Warning: Turn unit off before removing the sensing tip. Failure to do so may result in a mild electrical shock. Keep the sensing tip clean: Prevent dust, moisture and grease build-up by utilizing the provided tip protector. Never use the unit without the protector in place.
Before using the unit always inspect the tip and protector to see that they are free of dirt and grease.

CLEANING

1. Remove protector by grasping and pulling off tip.
2. Clean protector with shop towel and/or compressed air.
3. If the tip itself is dirty, it can be cleaned by being immersed in a mild solvent, such as alcohol, for a few seconds, and then using compressed air and/or a shop towel to clean.

Note: Never use solvents such as gasoline, turpentine, mineral spirits, etc ... as these will leave a detectable residue and desensitize your unit.

Hinweis: Verwenden Sie niemals Lösungsmittel wie Benzin, Terpentin, Waschbenzin, etc., diese können Rückstände hinterlassen, auf die das Gerät anspricht.

ENVIRONMENTAL PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment.



DISPOSAL

Do not dispose battery in household waste. Batteries should be disposed of in a responsible manner, they must be disposed at appropriate collection point. Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment. Contact your local solid waste authority for recycling information or give the product for disposal to BGS technic KG or to an electrical appliances retailer.





**EU-KONFORMITÄTSERKLÄRUNG
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DÉCLARATION „CE“ DE CONFORMITE
DECLARACION DE CONFORMIDAD UE**

Wir erklären in alleiniger Verantwortung, dass die Bauart des Produktes:
We declare that the following designated product:
Nous déclarons sous propre responsabilité que ce produit:
Declaramos bajo nuestra sola responsabilidad que este producto:

**Klimaanlagen-Lecksuchgerät (Art. 8557)
Air Condition Leakage Tester
Détecteur de fuites de gaz air conditionnée
Comprobador de fugas en sistemas de aire acondicionado**

folgenden einschlägigen Bestimmungen entspricht:
complies with the requirements of the:
est en conformité avec les réglementations ci-dessous:
esta conforme a las normas:

EMC Council Directive 2014/30/EU

Angewandte Normen:

Identification of regulations/standards:

Norme appliquée:

Normas aplicadas:

EN 61326-1:2013

Certificate No.: IT021330JC170815 / HLD-100+

Test Report No.: SCC(17)-30607A-29-10-EMC

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ppa.

Frank Schottke, Prokurist

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