General Information

Incorporated with advanced leak detection technology, CLD-100 is ideal and economical halogen leak detector. Compact in appearance, it is steady and easy to handle.

Detecting all kinds of halogen refrigerants

Sensitivity can be adjusted at any time and the detector can be adjusted automatically for fastest state of detection. The inner precise IC with ultra-low circuit consumption offers more stable function and longer battery life. Excellent sensor brings high sensitivity and longer service time.

Detection Range

The CLD-100 may detect usually detected leaks in other systems and storage/recovery containers. It will respond to all halogenated (including Chlorine and Fluorine) refrigerants. This includes, but not limited to:

- CFCs: e.g. R12, R11, R500, R503 etc.
- HCFCs: e.g. R22, R123, R124, R502 etc.
- HFCs: e.g. R134a, R404a, R125 etc.
- Blends such as AZ-50, HP62, MP39 etc.

Detect Ethylene Oxide gas leaks in hospital sterilizing equipment (it will detect the halogenated carrier gas).

Detect SF-6 in high voltage circuit breakers.

Detect most gases that contain chlorine, Fluorine and Bromine (halogen gases).

Detect cleaning agents used in dry cleaning applications such as perchloroethylene.

Detect halogen gases in fire-extinguishing systems.

Operating Instructions

B. Before using the detector, make sure the battery is charged. The detector will have a low battery indicator which will flash red 3 times and then go out. Always keep your battery charged. The battery life is approximately 20 hours in normal use.

Detection Method

**The gas conditioning or refrigeration units which should be charged with refrigerants must be thoroughly cleaned before the detection of leaks.** (Caution: Do not use any inflammable or explosive gases.)

Check the condition of the refrigerant contained in the refrigeration unit. Then, check the leakage of the unit to the refrigerant. (Caution: The use of inflammable or explosive gases is prohibited.)

Observe the color of the gas, and note any unusual sound. If the gas is not leaking, the color of the gas will remain unchanged, and the detector will not respond. If the gas is leaking, the color of the gas will change, and the detector will respond.

Maintenance

The detector was designed to be self-maintained. Frequent checking and repair should be carried out. Always use a soft, dry cloth to clean the detector.

**Testing the Detector for Functionality**

1. Check the sensitivity of the detector by spraying a known amount of halogenated refrigerant on the sensor.

2. Check the response time by spraying a known amount of halogenated refrigerant on the sensor. If the detector does not respond within 2 seconds, it may be malfunctioning.

3. Check the accuracy of the detector by spraying a known amount of halogenated refrigerant on the sensor. If the detector reads a value different from the actual amount, it may be malfunctioning.

**Testing the Detector for Gas Leakage**

1. Check the gas leakage by spraying a known amount of halogenated refrigerant on the sensor. If the detector does not respond within 2 seconds, it may be malfunctioning.

2. Check the accuracy of the detector by spraying a known amount of halogenated refrigerant on the sensor. If the detector reads a value different from the actual amount, it may be malfunctioning.