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SNDWAYTOOLS SW743A

SNDWAYTOOLS SW743A Refrigerant Gas Tester

User Instruction Manual

1. Introduction

The SNDWAYTOOLS SW743A is a highly sensitive and accurate digital halogen gas leak detector. It is engineered to detect a wide range of halogen refrigerants including CFCs, HCFCs, and HFCs, making it an essential tool for air conditioning inspection, refrigeration system maintenance, and other industrial applications. Its advanced semiconductor sensor and microprocessor control ensure rapid response and reliable detection.
This manual provides comprehensive instructions to help you effectively use and maintain your SW743A detector. Please read it thoroughly before operation.

2. Safety Information

Always observe the following safety precautions to prevent injury or damage to the device:

- Do not use the device to detect liquid petroleum gas (LPG). This detector is specifically designed for halogen gases.
- Ensure proper ventilation when testing for gas leaks.
- Keep the device away from water and excessive moisture, although it has an IP54 rating for dust and splash resistance.
- Do not attempt to disassemble or modify the device. Refer all servicing to qualified personnel.
- Use only the specified battery type (AAA alkaline batteries).
- Store the device in its protective case when not in use to prevent damage.

3. Package Contents

Verify that all items are present in your package:

- SNDWAYTOOLS SW743A Halogen Gas Leak Detector
- 3 x AAA Alkaline Batteries
- Storage Case
- Instruction Manual



Image: The SW743A detector shown alongside the included three AAA alkaline batteries.



Image: The SW743A detector and its durable black and orange storage case, designed for portability and protection.

4. Product Overview

The SW743A detector features an ergonomic design for comfortable handling and a flexible probe for reaching confined spaces. The front panel includes a digital display, control buttons, and indicator lights.



Image: Side view of the SW743A detector, highlighting its ergonomic shape and flexible probe.

Key Components:

- **Flexible Probe:** For precise detection in hard-to-reach areas.
- **Digital Display:** Shows PPM (parts per million) readings and temperature.
- **Control Buttons:** Power, BACK, ENTER, Up/Down arrows for navigation and settings.
- **Alarm Indicator:** Visual and audible warnings for leak detection.
- **High Sensitivity Sensor:** The MP-901 sensor provides high precision, high sensitivity, rapid response, and ultra-low power consumption.



Image: A diagram illustrating the internal components of the MP-901 sensor, emphasizing its high precision, sensitivity, rapid response, and low power consumption.

5. Setup

5.1 Battery Installation

1. Locate the battery compartment on the back of the device.
2. Open the battery compartment cover.
3. Insert 3 x AAA alkaline batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

6. Operating Instructions

6.1 Powering On and Warm-up

1. Press and hold the Power button () to turn on the device.

2. The device will undergo a warm-up period of approximately 30 seconds. During this time, the display may show a countdown or a warm-up indicator.
3. Once warmed up, the device is ready for detection.

6.2 Leak Detection

1. Slowly move the flexible probe around the suspected leak area.
2. The device will display the concentration of detected halogen gas in PPM.
3. **Leak Warning:** When a leak is detected, the device will emit a

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