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MeterTo 824

Victor 824 Digital Noise Sound Level Meter User Manual

Precision Instruments for Accurate Sound Measurement

1. Introduction

This user manual provides detailed instructions for the proper use and maintenance of the Victor 824 Digital Noise Sound Level Meter. This unit is designed for measuring sound levels and was developed in accordance with the following international standards:

- International Electrician Committee Standard: IEC PUB 651 TYPE2
- US National Standard: ANSI S1.4 TYPE2

Please read this manual thoroughly before operating the device to ensure correct usage and to maximize its lifespan.

2. Key Features

The Victor 824 Digital Noise Sound Level Meter offers a range of features for precise sound measurement:

- **Measuring Range:** 30~130 dBA; 35~130 dBC
- **Accuracy:** ±1.5 dB
- **Digit & Resolution:** 5 digits & 0.1 dB
- **Frequency Response:** 31.5Hz ~8.5KHz
- **Measuring Levels:** 30~130, 40~90, 50~100, 60~110, 80~130
- **Frequency Weighting:** A & C characteristics
- **Time Weighting:** FAST/SLOW
- **Sampling Rate:** 2 times/second
- **Microphone:** 1/2 inch polarization capacitance microphone
- AC/DC output for frequency analyzer or recorder
- Max reading function
- Barcode value indication
- Overload indication: OVER / UNDER

- Low battery indication

3. Specifications

Parameter	Value
Measuring Range	30~130 dBA; 35~130 dBC
Accuracy	±1.5 dB
Digit & Resolution	5 digits & 0.1 dB
Frequency Response	31.5Hz ~8.5KHz
Measuring Levels	30~130, 40~90, 50~100, 60~110, 80~130
Frequency Weighting	A & C
Time Weighting	FAST/SLOW
Sampling Rate	2 times/second
Microphone	1/2 inch polarization capacitance microphone
Power	1.5V AA* 4pcs or DC 6V 100mA adapter
Dimension	256*70*35mm
Weight	308g (including batteries)

4. Setup

4.1 Unpacking and Inspection

Carefully remove the sound level meter from its packaging. Inspect the device for any signs of damage during transit. Ensure all components listed in the packing list are present.

4.2 Battery Installation

The Victor 824 requires four 1.5V AA batteries for operation. To install the batteries:

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open it.
3. Insert four AA batteries, ensuring correct polarity (+ and -) as indicated inside the compartment.
4. Replace the battery compartment cover securely.

Figure 1: Front view of the Victor 824 Digital Sound Level Meter, showing the display and microphone.

4.3 Powering On

Press the green power button located on the front panel to turn on the device. The display will illuminate, and the meter will be ready for use.

5. Operating Instructions

This section details the steps for taking accurate sound level measurements using the Victor 824.

5.1 Basic Measurement

1. Turn on the meter by pressing the green power button.
2. Hold the meter with the microphone pointed towards the sound source. Ensure no obstructions are blocking the microphone.
3. The current sound level will be displayed on the LCD screen in decibels (dB).

Figure 2: Angled view of the Victor 824, highlighting the display and control buttons.

5.2 Frequency Weighting (A/C)

The meter supports two frequency weighting characteristics: A and C.

- **A-Weighting (dBA):** Mimics the human ear's response to sound. Commonly used for environmental noise measurements and occupational health and safety.
- **C-Weighting (dBC):** Provides a flatter response, measuring the true sound pressure level across a wider frequency range. Useful for analyzing low-frequency noise or peak sound levels.

Press the 'A/C' button to toggle between A-weighting and C-weighting. The selected weighting will be indicated on the display.

5.3 Time Weighting (FAST/SLOW)

The meter offers two time weighting settings:

- **FAST:** Responds quickly to changes in sound level (125ms time constant). Suitable for measuring fluctuating noise or identifying peak levels.
- **SLOW:** Provides a more averaged reading (1 second time constant). Ideal for measuring steady noise levels.

Press the 'FAST/SLOW' button to switch between these settings. The active setting will be shown on the display.

5.4 MAX Reading Function

To capture the maximum sound level recorded during a measurement session, press the 'MAX' button. The display will hold the highest decibel reading until the function is deactivated or the meter is reset. Press 'MAX' again to exit this mode.

5.5 AC/DC Output

The Victor 824 features AC/DC output ports for connecting to external devices such as frequency analyzers, graphic recorders, or data loggers. These ports are located on the side of the unit.

Figure 3: Side view of the Victor 824, illustrating the AC/DC output ports.

6. Maintenance

Proper maintenance ensures the longevity and accuracy of your Victor 824 Sound Level Meter.

6.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water. Keep the microphone clean and free from dust or debris.

6.2 Storage

When not in use for extended periods, remove the batteries to prevent leakage. Store the meter in a cool, dry place, away from direct sunlight, extreme temperatures, and high humidity. The provided carrying case is ideal for protection.

Figure 4: The Victor 824 Sound Level Meter stored in its protective carrying case.

6.3 Calibration

For optimal accuracy, it is recommended to recalibrate the Victor 824 Sound Level Meter annually. Calibration should be performed using a 94dB 1KHz standard sound source. Refer to the calibration procedure in the included manual or

contact a certified calibration service.

7. Troubleshooting

If you encounter issues with your Victor 824, refer to the following common problems and solutions:

- **No Power:**
  - Check if batteries are installed correctly with proper polarity.
  - Replace old or depleted batteries with new ones.
  - Ensure the battery compartment cover is securely closed.
- **Inaccurate Readings:**
  - Ensure the microphone is not obstructed and is pointed correctly at the sound source.
  - Verify the selected frequency (A/C) and time (FAST/SLOW) weighting settings are appropriate for your measurement.
  - Consider if the device requires recalibration (recommended annually).
- **'OVER' or 'UNDER' Indication:**
  - This indicates the sound level is outside the meter's current measuring range. Adjust the measuring level range if possible, or move to an environment within the meter's capabilities.
- **Display Not Working:**
  - Check battery power.
  - If the issue persists after checking batteries, contact customer support.

For problems not listed here, or if troubleshooting steps do not resolve the issue, please contact MeterTo customer support.

8. Warranty and Support

The Victor 824 Digital Noise Sound Level Meter is manufactured by MeterTo. For specific warranty details, please refer to the warranty card included with your product or visit the official MeterTo website.
For technical support, service, or calibration inquiries, please contact MeterTo customer service. Keep your purchase receipt and product model number (Victor 824) ready when contacting support.
Recommended Recalibration Cycle: 1 year

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