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BUUBO AS803

BUUBO AS803 Handheld Digital Lux Meter

User Manual

Model: AS803 | Brand: BUUBO

1. Introduction

The BUUBO AS803 Handheld Digital Lux Meter is a precise and reliable instrument designed for measuring light illuminance and ambient temperature. Its compact size and user-friendly interface make it suitable for a wide range of applications, including lighting design, industrial settings, agriculture, laboratories, and offices. This manual provides detailed instructions to ensure proper setup, operation, and maintenance of your device.

2. Safety Information

Please read and understand the following safety precautions before using the device to prevent injury or damage to the meter.

- Do not expose the device to extreme temperatures, high humidity, or corrosive environments.
- Avoid dropping or subjecting the meter to strong impacts.
- Ensure batteries are inserted with correct polarity. Remove batteries if the device will not be used for an extended period to prevent leakage.
- Do not attempt to disassemble or modify the meter. Refer all servicing to qualified personnel.
- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.

3. Product Overview

Familiarize yourself with the components of your AS803 Digital Lux Meter.



Figure 3.1: Front and back view of the AS803 Digital Lux Meter with key components labeled, including the sensor protection cover, light sensor, large clear LCD display, power on/off button, Max/Min display & data hold switch, light unit switch button, and battery compartment.



Figure 3.2: Detailed view highlighting the sensor protection cover and the clear, large LCD display of the AS803 Lux Meter.



Figure 3.3: The AS803 Lux Meter with its dimensions (16.5cm/6.50in height, 5cm/1.97in width, 2.7cm/1.06in depth) and illustrating the 180-degree rotatable light sensor for flexible measurement angles.

4. Setup

4.1 Battery Installation

The AS803 Lux Meter requires 3 x 1.5V AAA batteries (not included) for operation.

1. Locate the battery compartment on the back of the device (refer to Figure 3.1).
2. Slide open the battery compartment cover.
3. Insert three 1.5V AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

5. Operating Instructions

5.1 Power On/Off

- To power on the device, press the **Power On/Off** button. The LCD display will illuminate.
- To power off the device, press and hold the **Power On/Off** button until the display turns off. The meter also features an auto power-off function to conserve battery life.

5.2 Measurement Modes and Unit Switching

- **Lux/FC Switching:** Press the **Lux/FC** button to switch between Lux and Foot-Candle (FC) measurement units. The selected unit will be displayed on the LCD.
- **Automatic/Manual Range:** The meter supports both automatic and manual range shifting for light measurement.

5.3 Special Functions



Figure 5.1: Icons illustrating key features: Light Measuring (Lux), Max/Min Display, Low Battery Indication, Backlight, Switchable Unit (Lux & FC), Auto Power Off, and Data Hold.

- **MAX/MIN Function:** Press the **Mode** button repeatedly to cycle through measurement modes. In MAX mode, the display will only show values greater than the current reading. In MIN mode, it will only show values less than the current reading.
- **Data Hold:** Press the **HOLD** button to freeze the current reading on the display. Press it again to release the hold function.
- **Backlight:** The LCD display features a backlight for easy operation in dark environments. The backlight can be activated or deactivated via the **Backlight & Temperature Unit Switch** button.
- **Low Battery Indication:** A low battery icon will appear on the display when the battery power is low, indicating that batteries need to be replaced.
- **Auto Power Off:** To conserve battery life, the meter will automatically power off after a period of inactivity.

6. Maintenance

Proper maintenance ensures the longevity and accuracy of your AS803 Lux Meter.

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure the light sensor is clean and free of dust or smudges for accurate readings.

- **Storage:** Store the meter in a cool, dry place away from direct sunlight and extreme temperatures. If storing for an extended period, remove the batteries to prevent leakage.
- **Sensor Protection:** Always keep the sensor protection cover on when the meter is not in use to protect the light sensor from damage and dust.

7. Troubleshooting

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery polarity.	Replace batteries with new ones; ensure correct polarity.
Inaccurate readings.	Dirty sensor; sensor not properly exposed to light; incorrect measurement unit.	Clean the sensor; ensure sensor is facing the light source; check if Lux or FC unit is selected correctly.
Display shows 'OL' or 'OVER'.	Measurement range exceeded.	Switch to a higher measurement range if available, or move to a less intense light source.
Backlight not working.	Backlight function not activated; low battery.	Press the backlight button; replace batteries.

8. Specifications

Technical specifications for the BUUBO AS803 Digital Lux Meter.



Figure 8.1: Visual representation of key parameters and the LCD display breakdown, including Data Hold Icon, Battery Power Indicator, Backlight Icon, Light Measuring Unit, Light Measuring Value, Temperature Unit, and Temperature Reading.

Parameter	Value
Measuring Range	0-200,000 Lux
Resolution	1 Lux
Accuracy	±5%rdg±10dgts
Temperature Range	-10-50℃ / 14-122℉
Sampling Rate	1.5 times/sec
Measurement Repeatability	±2%
Operating Temperature	0-50℃ (80%RH non-condensing)
Storage Temperature	-10-50℃ (70%RH non-condensing)
Power Supply	3 * 1.5V AAA Batteries (Not Included)
Item Size	16.5 * 5 * 2.7cm / 6.50 * 1.97 * 1.06in
Item Weight	86g / 3.03oz

Parameter	Value
Material	ABS Plastic
Color	Black

9. Warranty and Support

BUUBO products are manufactured to high-quality standards. For specific warranty details, please refer to the product packaging or the point of purchase. If you encounter any issues or require technical assistance, please contact your retailer or the manufacturer's customer support. Keep your purchase receipt as proof of purchase for warranty claims.
For further inquiries, please visit the official BUUBO website or contact customer service through the contact information provided with your product.

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