Delta Ohm HD2302.0 and LP471PHOT

Delta Ohm HD2302.0 and LP471PHOT Lux Meter Kit User Manual

Model: HD2302.0 and LP471PHOT

Introduction

This manual provides essential information for the proper operation and maintenance of your Delta Ohm HD2302.0 Lux Meter Kit, which includes the LP471PHOT sensor. This precision instrument is designed for accurate measurement of illuminance (light intensity) in various environments, with a measurement range of 3000 to 200000 lux (lx).

Please read this manual thoroughly before using the device to ensure safe and efficient operation and to maximize the lifespan of your instrument.

Product Overview



Figure 1: The Delta Ohm HD2302.0 Lux Meter with its display showing '1624.2 LUX', connected to a cylindrical light sensor. Several smaller, circular light sensors with cables are also visible, along with a metal mounting plate. The meter unit features buttons labeled DATA, CLR, HOLD, UNIT, REL, and AUTO/OFF.

The Delta Ohm HD2302.0 is a high-precision lux meter designed for professional use. It typically comes as a kit, including the main meter unit and various light sensors, such as the LP471PHOT, to accommodate different measurement needs. The device features a clear digital display and intuitive controls for ease of use.

Setup

1. **Unpacking and Inspection:** Carefully unpack all components from the packaging. Verify that all items listed in the

product's packing list are present and undamaged. This typically includes the HD2302.0 meter unit, LP471PHOT sensor, and any additional accessories.

2. **Power Source:** The device requires a power source for operation. While the product information states "Manually Powered," this is likely a translation error. Most digital lux meters of this type operate on standard batteries (e.g., AA or AAA) or a rechargeable battery pack. Locate the battery compartment, typically on the rear or bottom of the unit, and insert the required batteries, observing correct polarity. If it's a rechargeable unit, ensure it is fully charged before first use.
3. **Connecting the Sensor:** Connect the LP471PHOT sensor cable to the designated input port on the HD2302.0 meter unit. Ensure the connection is secure to prevent intermittent readings. The port is usually a multi-pin connector designed for the specific sensor type.
4. **Initial Power-On:** Press the **AUTO/OFF** button (often marked with a power symbol) to turn on the device. The display should illuminate and show a reading, possibly '0.00' or a low ambient light value.

Operating Instructions

1. **Power On/Off:** Press the **AUTO/OFF** button to turn the meter on or off. The device may also have an automatic shut-off feature to conserve battery life.
2. **Taking a Measurement:**
    - Ensure the sensor is clean and unobstructed.
    - Position the LP471PHOT sensor at the point where you wish to measure light intensity. Ensure the sensor's light-receiving surface is facing the light source directly.
    - Read the illuminance value displayed on the screen in 'LUX'.
3. **UNIT Button:** Press the **UNIT** button to cycle through available measurement units, if applicable (e.g., Lux, Foot-candles). The display will indicate the currently selected unit.
4. **HOLD Button:** Press the **HOLD** button to freeze the current reading on the display. This is useful for recording values in difficult-to-view positions. Press **HOLD** again to release the reading.
5. **DATA Button:** The **DATA** button may be used to save readings to the device's internal memory or to access stored data. Refer to the full product manual for detailed data logging and retrieval procedures.
6. **CLR Button:** The **CLR** (Clear) button is typically used to clear stored data or reset certain functions. Use with caution, as it may erase valuable information.
7. **REL Button:** The **REL** (Relative) button allows for relative measurements, where the current reading is set as a reference point (zero), and subsequent readings are displayed as deviations from this reference.

Maintenance

- **Cleaning:**
    - Wipe the meter unit and sensor with a soft, dry, lint-free cloth.
    - For stubborn dirt, a slightly damp cloth with mild soap can be used, but ensure no liquid enters the device.
    - Do not use abrasive cleaners, solvents, or strong chemicals, as these can damage the plastic casing or sensor surface.
- **Sensor Care:** The LP471PHOT sensor is a delicate component. Avoid touching the light-receiving surface directly. Keep it free from dust, fingerprints, and scratches, as these can affect measurement accuracy. Use a soft brush or compressed air to remove dust.
- **Storage:** When not in use, store the lux meter kit in its original case or a protective pouch to prevent damage. Store in a cool, dry place, away from direct sunlight, extreme temperatures, and high humidity.

- **Battery Replacement:** If the device uses replaceable batteries, replace them promptly when the low battery indicator appears on the display. Always use the specified battery type and dispose of old batteries responsibly according to local regulations. If the device is not to be used for an extended period, remove the batteries to prevent leakage.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	• Dead or incorrectly inserted batteries. • Power button not pressed correctly.	• Check and replace batteries, ensuring correct polarity. • Press the AUTO/OFF button firmly.
Inaccurate or fluctuating readings.	• Dirty or obstructed sensor. • Loose sensor connection. • Sensor not positioned correctly. • External interference.	• Clean the sensor surface. • Ensure the sensor cable is securely connected. • Reposition the sensor to face the light source directly. • Move away from strong electromagnetic fields.
Display shows "OVER" or "OL".	Measurement exceeds the device's maximum range.	Move the sensor to an area with lower light intensity or ensure the correct sensor for the range is used.
Display shows "LOW BATT".	Batteries are low.	Replace the batteries immediately.

If you encounter problems not listed here, or if the issue persists after attempting the suggested solutions, please contact Delta Ohm customer support or your local distributor for assistance.

Specifications

- **Model:** HD2302.0 and LP471PHOT
- **Brand:** Delta Ohm
- **Measurement Range:** 3000 - 200000 lx (Lux)
- **Dimensions (L x W x H):** Approximately 3.8 x 8.8 x 14 cm (Main Unit)
- **Weight:** Approximately 730 grams (Total Kit)
- **Components Included:** 1 piece (Kit, typically includes meter and sensor)
- **Power Source:** Typically battery-powered (refer to device for specific battery type, e.g., AA/AAA, or rechargeable).
- **Reference:** HD2302.0 und LP471PHOT

Note: Specifications are subject to change without prior notice. For the most current and detailed specifications, please refer to the official Delta Ohm product documentation or website.

Warranty and Support

Delta Ohm products are manufactured to high-quality standards. For information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official Delta Ohm website. Keep your purchase receipt as proof of purchase.

For technical support, service, or spare parts, please contact your authorized Delta Ohm distributor or the Delta Ohm customer service department. Contact information can usually be found on the manufacturer's website or in the product packaging.

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Example: How do I reset this device or fix this error?

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