

KYORITSU 5202

KYORITSU Digital Light Meter Model 5202

Instruction Manual

1. INTRODUCTION

Thank you for purchasing the KYORITSU Digital Light Meter Model 5202. This device is designed for accurate measurement of illuminance in various environments. It features a separated light receiving sensor for optimal positioning, multiple measurement ranges, and a clear digital display. Please read this manual thoroughly before use to ensure safe and correct operation.

2. SAFETY INFORMATION

- Do not attempt to open or modify the device, except for battery replacement as described in this manual.
- Keep the device away from water, high humidity, and extreme temperatures.
- Avoid dropping the device or subjecting it to strong impacts.
- Use only the specified battery type (9V alkaline battery).
- Dispose of batteries according to local regulations.
- Ensure the sensor is clean and free from obstructions for accurate readings.

3. PRODUCT OVERVIEW

The KYORITSU Digital Light Meter 5202 is a compact and versatile instrument for measuring light levels. Its key features include:

- **3-Range Switching:** Measures illuminance from low to high levels (200/2000/20000 lux).
- **Wide Measurement Range:** 0.1 to 19990 Lux.
- **Data Hold Function:** Freezes the current measurement on the display.
- **Separated Sensor:** The light receiving sensor is separate from the main unit, allowing for flexible and optimal positioning during measurement, preventing interference from the user's shadow.
- **Offset Adjustment:** Allows for fine-tuning of readings.
- **Large LCD Display:** Provides clear and easy-to-read digital measurements.



Figure 1: Front view of the KYORITSU Digital Light Meter 5202 with dimensions.



Figure 2: Rear view of the KYORITSU Digital Light Meter 5202 with kickstand.

4. SETUP

4.1 Battery Installation

The device requires one 9V alkaline battery (included). To install or replace the battery:

1. Ensure the device is powered off.
2. Locate the battery compartment on the back of the unit.
3. Remove the three screws securing the bottom bracket/back cover.
4. Carefully pry open the side seams of the main unit using a small flathead screwdriver. This will reveal the internal circuit board and the battery connection.
5. Connect the 9V battery to the battery clip, observing correct polarity.
6. Place the battery into its compartment and carefully reassemble the unit, ensuring the side seams align properly before re-inserting the screws.

4.2 Sensor Connection

The light receiving sensor is permanently attached via a cable. Ensure the cable is not damaged or kinked before use.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the **POWER** button to turn the device on or off.

5.2 Range Selection

The device offers three measurement ranges: 200, 2000, and 20000 Lux. Select the appropriate range using the **RANGE** button. Start with a higher range if the light intensity is unknown to avoid over-range readings.

5.3 Taking a Measurement

1. Turn on the device.
2. Position the light receiving sensor at the point where illuminance is to be measured. Ensure the sensor surface is clean and directly facing the light source.
3. Select the appropriate measurement range.
4. Read the illuminance value displayed on the LCD screen.

5.4 Data Hold Function

Press the **HOLD** button to freeze the current reading on the display. Press it again to release the hold and resume live measurement.

5.5 Offset Adjustment

The device includes an offset adjustment feature. Refer to the detailed instructions in the full product catalog or contact customer support for advanced calibration procedures if precise offset adjustment is required.

6. MAINTENANCE

6.1 Cleaning

Wipe the device and sensor with a soft, dry cloth. Do not use abrasive cleaners or solvents. Keep the sensor surface clean to ensure accurate readings.

6.2 Battery Replacement

Replace the 9V battery when the low battery indicator appears on the display or if the device fails to power on. Follow the steps outlined in Section 4.1 Battery Installation.

6.3 Storage

When not in use for extended periods, remove the battery to prevent leakage. Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

- **Device does not power on:** Check battery installation and ensure the battery has sufficient charge. Replace if necessary.
- **Inaccurate readings:** Ensure the sensor surface is clean and unobstructed. Verify the correct measurement range is selected. Check for any environmental factors affecting light.
- **Display shows 'OL' or 'OVER':** The light intensity exceeds the selected range. Switch to a higher measurement range.
- **Display is blank or flickering:** Battery may be low or improperly installed. Replace the battery.

8. SPECIFICATIONS

Feature	Specification
Manufacturer	KYORITSU
Model Number	5202
Measurement Range	0.1 to 19990 Lux
Ranges	200 / 2000 / 20000 Lux
Item Weight	300 g
Product Dimensions	148(L) × 71(W) × 36(D) mm
Battery Type	1 x 9V Alkaline Battery (included)
Data Hold	Yes
Offset Adjustment	Yes
First Available Date (Amazon.co.jp)	March 18, 2014

9. WARRANTY AND SUPPORT

This product is covered by the manufacturer's standard warranty. For warranty claims, technical support, or service, please contact your local KYORITSU distributor or refer to the official KYORITSU website for contact information. Please retain your proof of purchase for warranty purposes.