

LM-200LED LED Light Meter

Users Manual

- Mode d'emploi
- Bedienungshandbuch
- Manuale d'Uso
- Manual de uso



205 Westwood Ave Long Branch, NJ 07740 1-877-742-TEST (8378) Fax: (732) 222-7088 salesteam@Tequipment.NET



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Users Manual

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Limited Warranty and Limitation of Liability

Your Amprobe product will be free from defects in material and workmanship for 1 year from the date of purchase. This warranty does not cover fuses, disposable batteries or damage from accident, neglect, misuse, alteration, contamination, or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Amprobe's behalf. To obtain service during the warranty period, return the product with proof of purchase to an authorized Amprobe Test Tools Service Center or to an Amprobe dealer or distributor. See Repair Section for details. THIS WARRANTY IS YOUR ONLY REMEDY. ALL OTHER WARRANTIES - WHETHER EXPRESS, IMPLIED OR STAUTORY - INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, ARE HEREBY DISCLAIMED. MANUFACTURER SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, ARISING FROM ANY CAUSE OR THEORY. Since some states or countries do not allow the exclusion or limitation of an implied warranty or of incidental or consequential damages, this limitation of liability may not apply to you.

Repair

All test tools returned for warranty or non-warranty repair or for calibration should be accompanied by the following: your name, company's name, address, telephone number, and proof of purchase. Additionally, please include a brief description of the problem or the service requested and include the test leads with the meter. Non-warranty repair or replacement charges should be remitted in the form of a check, a money order, credit card with expiration date, or a purchase order made payable to Amprobe® Test Tools.

In-Warranty Repairs and Replacement – All Countries

Please read the warranty statement and check your battery before requesting repair. During the warranty period any defective test tool can be returned to your Amprobe® Test Tools distributor for an exchange for the same or like product. Please check the "Where to Buy" section on www.amprobe.com for a list of distributors near you. Additionally, in the United States and Canada In-Warranty repair and replacement units can also be sent to a Amprobe® Test Tools Service Center (see address below).

Non-Warranty Repairs and Replacement – US and Canada

Non-warranty repairs in the United States and Canada should be sent to a Amprobe® Test Tools Service Center. Call Amprobe® Test Tools or inquire at your point of purchase for current repair and replacement rates.

In USA Amprobe Test Tools Everett, WA 98203 Tel: 877-AMPROBE (267-7623) In Canada Amprobe Test Tools Mississauga, ON L4Z 1X9 Tel: 905-890-7600

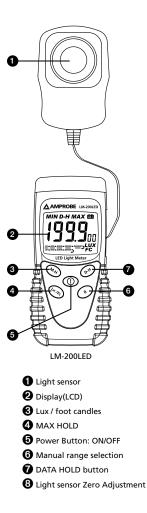
Non-Warranty Repairs and Replacement – Europe

European non-warranty units can be replaced by your Amprobe® Test Tools distributor for a nominal charge. Please check the "Where to Buy" section on www.amprobe.com for a list of distributors near you.

European Correspondence Address*

Amprobe[®] Test Tools Europe In den Engematten 14 79286 Glottertal, Germany Tel.: +49 (0) 7684 8009 - 0

*(Correspondence only – no repair or replacement available from this address. European customers please contact your distributor.)



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SYMBOLS

	Caution! Refer to the explanation in this Manual	C€	Complies with EU directives
C	Conforms to relevant Australian standards.	())	Do not dispose of this product as unsorted municipal waste.

Marning and Precautions

- Do not operate the meter in explosive gas (material), combustible gas (material) steam or filled with dust.
- The light sensor is calibrated to CIE standard incandescent lamp at 2856 °K and may give different readings for spectrums from other lamp types.

UNPACKING AND INSPECTION

Your shipping carton should include:

- 1 LM-200LED LED light meter
- 1 9 volt battery
- 1 Users Manual

If any of the items are damaged or missing, return the complete package to the place of purchase for an exchange.

INTRODUCTION

The instrument measure the visible light from LED lamp or lighting source.

One LUX (Lumen) is the illumination from a one candela lamp perpendicular to a surface one meter squared at a distance of one meter. One foot-candle (Fc) is the illumination from a one candela lamp perpendicular to a surface one foot squared at a distance of one foot.

OPERATION

- 1. Press the ① button to turn power on or off
- 2. Remove sensor cap and place the sensor perpendicular to the light.
- 3. Select Illuminance scale and range for reading.
- 4. When done testing, replace the sensor cover to protect the filter and sensor.

Lx / fc

Illuminance scales. 1 foot-candle = 10.764 Lux and 1 lux = 0.09290 footcandles.

Data Hold

Freezes the reading present on the LCD at the moment the button is pressed. Press HOLD again to disable Data Hold.

MAN Ranging

Press the MANual ranging button for useable reading.

Zero

The light sensor will change the null point over time. To reset the null point, cover the sensor, press the ZERO button. The display will show "ADJ". When the null reset is done, the display will read '00.0'.

SPECIFICATIONS

General

2000 count LCD		
Silicon photodiode and filter.		
Indoor operation		
Up to 2000m.		
-10 °C to 40 °C (14°F to 104°F), 0 to 80 %RH.		
-10 °C to 50 °C (14°F to 122°F), 0 to 70 %RH.		
9V NEDA 1604, IEC 6F22, JIS 006P battery		
200 hours		
approx 6 min		
130 x 63 x 38 mm (5.1 x 2.5 x 1.5")		
80 x 55 x 29 mm (3.2 x 2.2 x 1.1")		
220 g (.48 lb.) include battery		

C-EMC: EN61326-1 This product complies with requirements of the following European Community Directives: 89/336/EEC (Electromagnetic Compatibility) and 73/23/EEC (Low Voltage) as amended by 93/68/EEC (CE Marking). However, electrical noise or intense electromagnetic fields in the vicinity of the equipment may disturb the measurement circuit. Measuring instruments will also respond to unwanted signals that may be present within the measurement circuit. Users should exercise care and take appropriate presente of electronic interference.

Illumination:

 Measuring Range:
 20, 200, 2000, 20000, 200000 Lux

 20, 200, 2000, 20000 Foot candles

 4 ccuracy:
 ± 3 % (Calibrated to standard incandescent

 lamp at 2856 °K)
 8% other visible light sources

 Angle deviation from cosine Characteristics
 30 ° ± 2 %

 60 ° ± 6 %
 80 ° ± 25 %

Cosine Angular corrected per JIS C 1609:1993 and CNS 5119 general A class specifications.

MAINTENANCE AND REPAIR

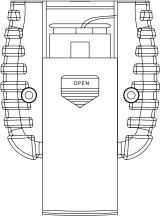
If there appears to be a malfunction during the operation of the meter, the following steps should be performed in order to isolate the cause of the problem.

- 1. Check the battery. Replace the battery immediately when the symbol "⊡" appears on the LCD.
- Review the operating instructions for possible mistakes in operating procedure.

Except for the replacement of the battery, repair of the meter should be performed only by a Factory Authorized Service Center or by other qualified instrument service personnel. The front panel and case can be cleaned with a mild solution of detergent and water. Apply sparingly with a soft cloth and allow to dry completely before using. Do not use aromatic hydrocarbons or chlorinated solvents for cleaning.

Battery Replacement

- Turn off the meter and slide out the battery cover. Replace the battery with a NEDA type 1604 or equivalent 9V alkaline battery. Replace the cover.
- 2. Remove battery when the instrument is not used for extended period.



Battery Replacement

Visit www.Amprobe.com for

- Catalog
- Application notes
- Product specifications
- User manuals





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