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› Landtek GM-6 Glossmeter Gloss Meter 60° Instruction Manual

Landtek GM-6

Landtek GM-6 Glossmeter Instruction Manual

Model: GM-6 Glossmeter

Brand: Landtek

1. PRODUCT OVERVIEW

The Landtek GM-6 Glossmeter is a portable, high-precision instrument designed for accurate gloss measurement. It is ideal for assessing surface quality in various applications, ensuring consistency and adherence to industry standards. Its compact design and user-friendly interface make it suitable for both professional and field use.

Key features include:

- Measuring geometry: 60 Degrees
- Compliance with international standards: ASTM D523, ASTM D1455, ASTM C346, ASTM C584, ASTM D2457, DIN EN
- Accurate measurement with good repetitiveness
- Small in size, easy to carry, and comes with a compact plastic case
- Widely used in floor maintenance, surface cleaning quality control, stone and tile gloss measurement, checking printed matter, quality control of paint and ink, polished metal surface, and auto-body paint inspection.



Figure 1.1: Front view of the Landtek GM-6 Glossmeter, showing the backlit LCD and control buttons.

2. SETUP

2.1 Unpacking the Device

Carefully remove the GM-6 Glossmeter and its accessories from the packaging. Ensure all components are present:

- GM-6 Glossmeter unit
- Calibration standard plate
- USB charging cable
- Power adapter
- Cleaning cloth
- Instruction manual



Figure 2.1: The GM-6 Glossmeter and its included accessories, neatly arranged.

2.2 Charging the Battery

The GM-6 Glossmeter is equipped with a built-in 3.7V Lithium Ion rechargeable battery. Before initial use, fully charge the device. Connect the USB charging cable to the glossmeter and the power adapter, then plug the adapter into a standard electrical outlet. A full charge typically takes approximately 4 hours.

2.3 Initial Calibration

For accurate measurements, it is crucial to calibrate the device before first use and periodically thereafter. The GM-6 comes with a calibration standard plate. Refer to the 'Operating Instructions' section for detailed calibration steps using the 'CAL' button.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

Press and hold the red circular button (power button) to turn the device on or off. The backlit LCD will illuminate upon powering on.

3.2 Calibration Procedure

1. Ensure the glossmeter is clean and free of dust on its measurement aperture.
2. Place the glossmeter firmly and flatly onto the provided calibration standard plate.
3. Press the 'CAL' button. The display will show a calibration progress indicator.
4. Wait for the calibration to complete. The device will display a confirmation or the current gloss unit reading of the standard.



Figure 3.1: Side view of the GM-6 Glossmeter, highlighting the control panel with 'MEAS', 'DEL', 'RD', 'ANGLE', and 'CAL' buttons.

3.3 Taking a Measurement

1. Place the glossmeter's measurement aperture firmly and flatly on the surface to be measured.
2. Press the 'MEAS' button. The gloss unit (GU) reading will be displayed on the LCD.
3. For consistent results, take multiple readings (e.g., six readings) from different spots on the surface and average them.
4. The device automatically saves readings. Use the 'RD' (Read) button to cycle through stored data and 'DEL' (Delete) to remove individual readings.



Figure 3.2: Bottom view of the GM-6 Glossmeter, showing the measurement aperture that contacts the surface.

3.4 Changing Measurement Angle (if applicable)

The GM-6 Glossmeter is specified for 60-degree geometry. If the device supports multiple angles (not explicitly stated for this model but common in glossmeters), use the 'ANGLE' button to switch between available measurement geometries. For the GM-6, the primary measurement geometry is 60 degrees.

4. MAINTENANCE

4.1 Cleaning

Regularly clean the measurement aperture and the calibration standard plate with the provided soft cleaning cloth. Ensure no dust, fingerprints, or debris are present on these surfaces, as they can affect measurement accuracy. Do not

use abrasive cleaners or solvents.

4.2 Battery Care

To fully charge the battery, it takes about 4 hours each time. When the tester is not used for a long time, it is recommended to charge it once every 3 months to maintain battery health and longevity.

4.3 Storage

Store the glossmeter in its compact plastic case when not in use to protect it from dust, moisture, and physical damage. Store in a dry environment within the specified working conditions (0~40°C temperature; <85% humidity).

5. TROUBLESHOOTING

5.1 Inaccurate Readings

- **Check Calibration:** Ensure the device is properly calibrated using the standard plate.
- **Clean Surfaces:** Verify that the measurement aperture and the surface being measured are clean and free of contaminants.
- **Stable Placement:** Ensure the glossmeter is placed firmly and flatly on the surface without any wobbling.
- **Environmental Conditions:** Operate the device within the specified temperature and humidity ranges.

5.2 Device Not Powering On

- **Battery Charge:** The battery may be depleted. Connect the device to the charger and allow it to charge for at least 4 hours.
- **Charging Cable/Adapter:** Ensure the charging cable and power adapter are functioning correctly and securely connected.

5.3 Display Issues

- **Low Battery:** A dim or flickering display might indicate a low battery. Recharge the device.
- **Environmental Factors:** Extreme temperatures outside the operating range can affect LCD performance. Allow the device to acclimate to room temperature.

6. SPECIFICATIONS

Specification	Value
Display	4 Digits Backlit LCD
Measuring Geometry	60 Degrees
Range	0.1~ 200 Gloss Units
Gloss Units	GU

Specification	Value
Accuracy	+/- 1.0 GU
Resolution	0.1 GU
Repeatability	+/- 0.5 GU
Measuring Area	7 x 14 mm (Ellipse)
Data Memorized	254 Groups
Working Condition (Temperature)	0~40°C
Working Condition (Humidity)	<85%
Power Supply	3.7 V Built-in Lithium Ion Rechargeable Battery
Dimensions	140 x 45 x 75 mm
Weight	305 g (Including Fitted Batteries)
Material	ABS
Manufacturer	Unimall-US
Date First Available	December 16, 2019

7. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Landtek GM-6 Glossmeter, please refer to the warranty card included with your product or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: Unimall-US

For further assistance, visit the Landtek Store on Amazon: [Landtek Store](#)

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