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5702-DG6
GLOSS METER (BASIC TYPE)
OPERATION MANUAL

PLEASE SCAN QR CODE TO WATCH THE OPERATION VIDEO OF PRODUCTS.

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Introduction

5702−DG6 is a hand-held gloss meter for professional surface gloss test on paint, coating, ink, plastic, paper, ceramic, stone, metal and electroplating layer, etc. It conforms to the following standards: ISO2813, ISO7668, ASTM D523, ASTM D2457, DIN 67530.

Features

1. Real time and put-and-measure services.
2. Detect samples quickly with QC judging function.
3. The environmental temperature compensation function guarantees long-term calibration stability.
4. Support USB transmission and provide PC operating software, it can be on-line operated with PC to generate test report.
5. Built in rechargeable lithium battery, with ultra-low power consumption, it can work continuously for more than 32 hours under full charge.

Parameters

Measuring angle	60°
Minimum test material size	20×10mm
Measuring range	0~200GU
Resolution	0.1GU

Repeatability	0.2GU (range<120GU) 0.2% (range≥120GU)
Zero error	0.1GU
Indication error	±1.5GU (range<120GU) ±1.5% (range≥120GU)
Weight	237g
Power supply	rechargeable battery 3.7V@650mAh
Display	240×128 Dot Matrix
Language	English, Chinese
Charge port	USB (Type−C)
Data transmission	USB
Operation environment	10~45℃, 0~85%RH (no condensation)
Storage environment	-10~60℃, 0~85%RH (no condensation)

Operation

Please read this manual carefully before using and reserve it for reference.

1 Turn on/off

Turn On: In power-off state, short press the power button to turn on the instrument.
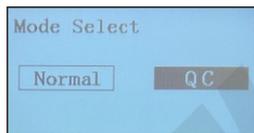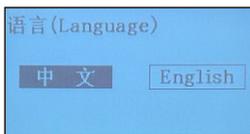
Turn Off: Long press the power button to turn off the instrument; the instrument will automatically power off with no operation over 30 minutes.

2 Parameter Setting

In power-off state, long press the button for 3s to enter the parameter setting mode:

◆ Language

Short press the button to select English or Chinese, long press the button for 3s to complete the setting, and enter the next setting item.

语言 (Language)		Mode Select	
中 文	English	Normal	QC

◆ Mode Selection

Short press the button to select normal mode or QC mode, long press the button for 3s to complete the setting, exit the setting and enter the calibration interface.

3 Calibration

If the meter gets powered on in calibration holder, it will enter the calibration interface. The user can perform the calibration operation according to the prompts, the instrument will enter measurement interface after the calibration. If it is not powered on in the calibration holder, it will skip the calibration and enter the measurement interface directly.
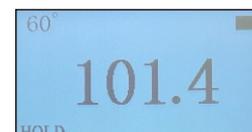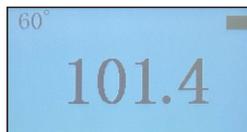
If it prompts that the calibration failed, the reasons may include:

1) If the standard is not clean, please clean the standard with special lens cloth before placing the meter into calibration holder.
2) If the meter is not clung to the calibration holder, please re-place into calibration holder.
3) If there is a significant change in the ambient temperature, restart the device for measurement after the temperature of the instrument is close to the ambient temperature and it is confirmed that there is no condensation on the lens in the test port and the standard of the base.
4) If the light source cannot work normally due to attenuation, the device needs to be sent back to the factory for inspection and maintenance. When the instrument prompts "Calibration failed", long press the button can skip the calibration.

4 Measurement

◆ Normal Mode

If the instrument is set to normal mode, remove the calibration holder after calibration, place the measuring port on the surface of the object to measure, the instrument will display the measured value instantly. Short press the button, the lower left corner of the interface displays the "HOLD" symbol, and the measurement data is held on the display. To measure again, press the button to cancel the "HOLD" state and return to the "Measuring" state.

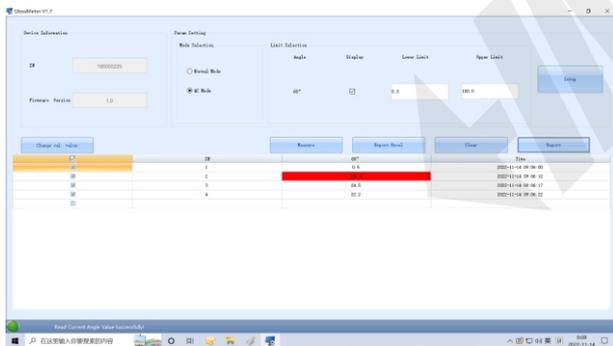| 60°	60°
101.4	101.4
	HOLD

◆ QC Mode

If the instrument is set to QC mode, remove the calibration holder after calibration, place the measuring port of the instrument on the surface of the object to measure, short press the button to measure, the instrument will judge whether the measured value is qualified. The upper and lower limits could be set by PC software. For specific operations, please refer to the "Gloss Meter Software Operation Manual".

PC Software

Connect the instrument to PC software via USB cable to perform functions ofonline measurement, change calibration values, parameter setting, test report generation and printing. For specific operations, please refer to "Gloss Meter Software Operation Manual".

Precautions

1.The temperature compensation function guarantees long-term calibration stability, it is recommended to calibrate once a week. If the environmental temperature changes significantly, please recalibrate it.

2. The measuring port of the instrument shall be attached to the surface of the object to avoid leakage of external light.

3. Please save the calibration holder in a clean place after the meter is removed, so as to prevent the standard from contamination.

4. Do not insert any object into the instrument for any reason, as it will damage it and influence the measuring accuracy as well as operation safety.

5. The instrument and calibration standard should be cleaned before storage and usage, and please use clean special lens cloth to remove contaminants. As the surface of the standard is very precise, make sure there are no fine particles on the lens cloth to avoid damage of the standard.

6. If there are multiple meters, put the meter on the calibration holder corresponding to the serial number of the meter for calibration.

7. When the battery of the instrument is out of power, it should be charged in time.

8. If the meter is not used over half a year, please charge it to avoid the battery from being excessively discharged and damaged.