

GLOSSMETER GM-026

1.Features:

designed and manufactured in accordance with international standard ASTM D523, ASTM D1455, ASTM C346, ASTM C584, ASTM D2457, DIN EN ISO 2813, DIN 67530, EN ISO 7668, JIS Z 8741, MFT 30064, TAPPI T 480, GB 9754, GB/T13891, GB 7706 and GB 8807. Its technical parameters conform with JJG 696-2002. Flexible use with its separate probe.

2.Applications:

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, measurement (chrome plating), Inspection of paint protection and waxing, Auto-body

paint inspection, Surface inspection of plastic moldings, Evaluation of detergents and washers, Checking masonry and building exteriors.

3. TECHNICAL SPECIFICATIONS

Display: 4 digits backlit LCD

Measuring geometry: 20° & 60°

Degrees

Range: 0.1 to 200 gloss units

Accuracy: ± 1.0 gloss unit

(against reference standard)

Resolution: 0.1 gloss unit

Repeatability: ± 0.5 GU

(0 ... 99.9)

Measuring area: 7x14mm ellipse

Data memorized: 254 groups

Data output: RS 232 C serial interface

Power supply: 4x1.5 V AAA

Dimensions: main unit: 156
x67x28mm

Separate sensor: 58x28x108mm

Weight: about 300g (including fitted batteries)

Working condition:

Temperature range 0 - 40°C

Humidity up to 85%

4. Accessories

Carrying case 1 pc

Operation manual 1 pc.

External probe..... 1 pc.

Holder with calibration standard..... 1 pc.

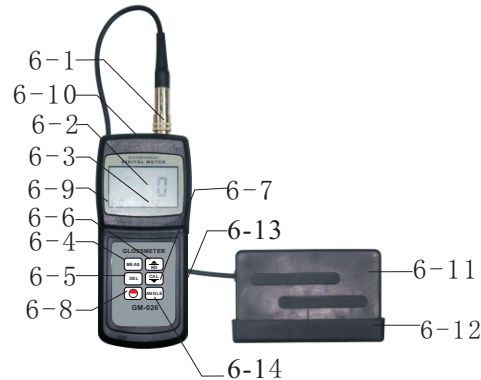
Optic cleaning cloth... 1 pc.

5. Optional accessories

Cable & software for RS232C.



USB adaptor. Bluetooth interface.

6. FRONT PANEL DESCRIPTIONS



- 6-1 Sensor Plug
- 6-2 Display
- 6-3 Number Memorized
- 6-4 Measuring key
- 6-5 Delete key
- 6-6 Read/Up key
- 6-7 CAL/Down key
- 6-8 Power key
- 6-9 Angle indicate
- 6-10 Jack for RS232 interface
- 6-11 Measurement Aperture
- 6-12 Protective Cap with calibration standard
- 6-13 Battery cover/compartment
- 6-14 Measuring geometry Key

7. Power ON / OFF

Press the key  to power on the meter. To turn it off, just press this key  again. This meter is powered with 4 x 1.5v AAA dry cell batteries. To install or replace the batteries, just remove the battery cover and Insert the new cells in the battery cartridge. Pay attention to the battery pole.

8. Calibration:

1. Press the "ANGLE" key (6-14) to select the right measuring geometry
2. Lay the main unit into the holder with calibration standard of high gloss black tile. Take a reading by pressing the MEAS key. Compare the measured value with the value marked on the tile holder, the instrument is within calibration and ready for use. If the measured value

does not match the assigned value, just press the CAL key. It is necessary to inspect the condition of the calibration tile and instrument optics before each calibration. Any dust or debris on the optic should be blown from the lenses using dry clean air, the optics must not be touched. If there are any permanent marks or scratches on the lenses, the instrument is no longer suitable for measuring and should be returned to an authorized service center. The calibration tile must be perfectly clean from smears and scratches before attempting calibration. Fingerprints and dust can be removed with the supplied optic cleaning cloth.

9.Measurement

Remove the holder and lay the Measurement Aperture just against the position that you want to measure. Take a measurement by pressing the MEAS key. The reading on the Display Screen within 2 seconds is the gloss value of that position. Meanwhile the result is stored into memory automatically.

When the instrument is placed on a sample the aperture is hidden, the centre of the measurement area can be pinpointed by the intersection of the arrows marked on the front of the instrument case with those on the side.






10.Data Memorizing

When taking measurements, all values will be stored automatically

in memory and the number of stored reading is accordingly increased by

10.1 The gloss meter can store up to 254 groups of data with measurement conditions. If the memory is full, the tester will auto save the new reading and discard the oldest one. That means the tester only hold the last 254 groups of data in memory.


11.Memory Recall

Under the measuring mode marked by 'M' on the display, press the  key to enter into mode of viewing stored values marked by 'R'. Press  key or  key to recall stored values forwards and backwards. To return to the measurement state, just press any key other than  or  key.

12.Delete data in memory

In the measurement state marked by 'M' on the display, the new reading can be deleted by pressing key DEL, and the number of stored reading is accordingly decreased by 1. To clear memory, just press and hold DEL key for 3 seconds till the number of stored reading becomes 000.

13.Download to PC

This meter can communicate with a PC by optional USB or RS232C cable and software. All the memorized data can download to your PC every time when in a measurement state marked by  when you press RD/ key to enter the viewing memorized state.

14.Auto Power Off

The instrument features an auto

power off function designed to conserve battery life. If the tool is idle (neither measuring nor any key operation) for 30 minutes, it will turn itself off.

15.Battery Replacement

When the battery symbol appears on the display, it is time to replace the batteries. Slide the Battery Cover away from the instrument and remove the batteries. Install batteries paying careful attention to polarity.

Notes:

- * The holder removed from the main unit should be kept in a safe and clean place to prevent from damage or pollution.
- * While measuring please keep environment light from directly irradiating into the measurement aperture.

If necessary, especially under strong light, shade it with a piece of light-tight cloth.

- * A big temperature difference between environment and meter would badly affect measuring accuracy. In such a case, please wait for a period of time till the temperature get to a balance and then calibrate the meter again.
- * If measurement operation lasts a long time., for example an hour or more, it is necessary to recalibrate the meter