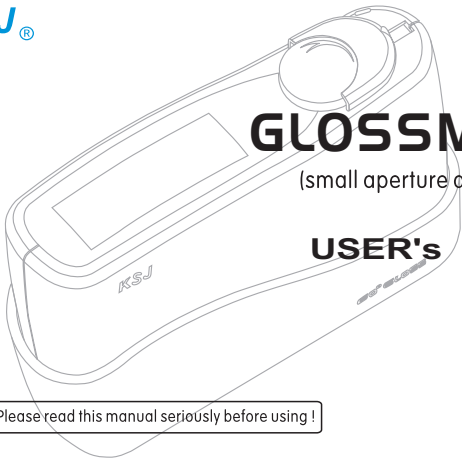


**KSJ**®



# GLOSSMETER

(small aperture and full scale)

## USER'S MANUAL

Model: MG6-SA

Please read this manual seriously before using !

Version:20171215

CE

RoHS

ISO-2813

60° GLOSS

Made in China

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## **Thanks and welcome to use MG6-SA!**

MG6-SA are designed and manufactured according to ISO2813 and GB9754. The meters are also compatible with the standards of ASTM D2457, ASTM D523, GB/T13891, GB7706, and GB8807. The technical parameters conform with JJG 696-2015. Besides this its measuring range is extended by the gloss definition to the full range. The gloss values can be traced to the those of the National Primary Standards in SIMT in the P.R.China.

MG6-SA has a small aperture and suitable for a protuberant facet.

Applications:

The gloss measurements of every kinds of materials and objects including metals and nonmetals.

## SPECIFICATIONS <A>

| Specifications       | Unit | MG6-SA 3 Digits |           |
|----------------------|------|-----------------|-----------|
| Reading Range        | GU   | 0 ~ 999         |           |
| Measuring Range      | GU   | 0 ~ 120         | 121 ~ 800 |
| Resolution           | GU   | 1               | 1         |
| Deviation            | GU   | ± 2             | ± 1.5%    |
| Zero-point Deviation | GU   | 1               |           |
| Stability            | GU   | 1               |           |
| Light Spot           | mm   | 1.5 × 3         |           |
| Measuring Aperture   | mm   | 2 × 4           |           |
| Incidence Angle      | DEG  | 60 °            |           |

Note: GU is short for Gloss Unit

## **SPECIFICATIONS <B>**

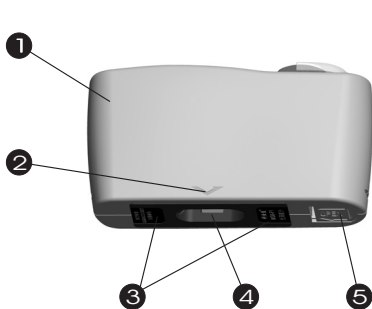
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| Specifications | Unit            | MG6-SA<br>3 Digits   |
|----------------|-----------------|--|
| Power Supply   |                 | One AA-size battery, 1.2V ~ 1.5V,<br>Rechargeable or alkaline.                                       |
| Consumption    |                 | It's different to battery types. An alkaline battery<br>may last the meter to work more than 58 hrs. |
| Main Volume    | mm <sup>3</sup> | 123 × 65 × 38  |
| Main Weight    | g               | 300  |

## STRUCTURE <A>

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### ◆FRONT



- ① Front Cover
- ② Measuring Mark
- ③ Info Labels
- ④ Measuring Aperture
- ⑤ Battery Cabin

## STRUCTURE <B>

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### ◆ REAR

- ⑥ Display Screen
- ⑦ Calibration Knob
- ⑧ Knob Protector
- ⑨ On/Off Button





## STRUCTURE <C>

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### ◆ Holder With Calibration Tile



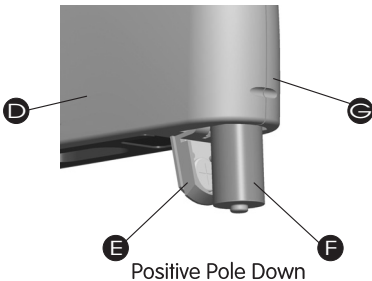
- A** Holder
- B** Calibration Tile (Working Standard)
- C** Gloss Value Label

## STRUCTURE <D>

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### ◆ Battery Changing

- Ⓓ Front Cover
- Ⓔ Cabin Cover
- Ⓕ AA-size Battery
- Ⓖ Rear Cover



## OPERATION

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### ■ Power ON/OFF

Push On/Off Button to turn on the meter. To turn off just push it again.

### ■ Calibration

Turn on the meter and turn the Calibration Knob to adjust the reading to the correct value that is labeled in the holder.

☆ The main must be located in the holder properly.

### ■ Measurement

Remove the holder and lay the Measuring Aperture just against the position that you want to measure. The gloss value will be shown on the Display Screen.

☆ For an accurate result it is necessary to recalibrate the meter during working.

## OPERATION

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### ■ Checking


After calibration, set the Measurement Aperture on the Checking Tile ( Black Working Standard ). The deviation between the shown value and the labeled value should be less than or equal to 2 GU. If the deviation goes beyond this scope, it's shown that the certified gloss values of the working standards may be changed. Thus the gloss values should be certified again.

- ☆ Check only when the meter is used for a long period, or the result of measurement is doubtful. It is not necessary to check for every measurement.

## OPERATION

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### ■ Precautions

- ▲ The lens in the Measuring Aperture, the surface of the Working Standards and the position measured, etc should be kept clean. If those surfaces get dirty with dust, steam or filth, fingerprint, etc, they must be cleaned lightly with lens paper or a soft cloth dipped absolute ethanol.
- ▲ Calibrating, measuring and checking should be carried out at the same ambient temperature. Too big difference in temperature would bring about the numerical excursion.
- ▲ While measuring keep environment light from directly irradiating into the Measurement Aperture.
- ▲ When the battery run out, the symbol of " " will appear on the Display Screen, replace the old battery with a new one at once.
- ▲ During measuring recalibrate the meter.

## MAINTENANCE

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### ■ Maintenance

- ▲ The whole set of the meter should be kept in dry, ventilative and non-corrosive environment.
- ▲ If the meter is not in use, please put into the holder.
- ▲ Keep the surface of the working standards clean, both the Calibration Tile and the Checking Tile.
- ▲ Remove the battery to prevent corrosion for a long period store.
- ▲ After measurement, the meter should be turned off at once in order to save the energy of battery.
- ▲ Although the plastic parts of the meter are resistant to many solvents, you should use a soft cloth dipped water or ethanol for cleaning.
- ▲ For environment dispose the wasted batteries properly.

## PACKING LIST

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|   |               |         |
|---|---------------|---------|
| ◆ Main Device                                     | Model: MG6-SA | 1 unit  |
| ◆ Holder with Calibrating Tile (Working Standard) |               | 1 unit  |
| ◆ Checking Tile ( Black Working Standard)         |               | 1 piece |
| ◆ User Manual                                     |               | 1 piece |
| ◆ Inspection Certification                        |               | 1 piece |
| ◆ Guarantee Card                                  |               | 1 piece |

## Limited Warranty And Technical Support

- ★ The limited warranty period is one year commencing on the date of purchase. If your gloss meter needs service, carry it to the local reseller or contact us at <http://www.ksj.cn> for repair.
- ★ We provide spare parts anytime for distributors and customers.
- ★ The inquiries on the gloss measurement may be directed to [sales@ksj.cn](mailto:sales@ksj.cn)
- ★ We also provide glossmeter customizing for a special application.

### Note:

- ☆ The meter should not be taken down at will in order to avoid precision destroying and causing maintaining difficulty.
- ☆ If the breakdown is caused by taking-down or inappropriate use, we reserve the rights not to guarantee it free in repair.



## NOTE FOR MAINTENANCE

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| Date | Description | Signature |
|------|-------------|-----------|
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