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## Manual PCE-GM 100 Gloss Meter Instructions



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## 1. Brief Introduction

The technology parameter of PCE-GM 100 Glossmeter is complete according with state standard GB9754-88 GB9966.5 and international standard ISO2813, all items of the performance meet the first class work requirements of state JJG696-2002 (Lens Luster Degree Instrument Measure Test Regulations) .

## 2. Applications

The surface luster measure for printing ink, paint, bake lacquer, coating and woodwork  
The surface luster measure for construction decoration materials: marble; granite; glass  
chemical polishing brick and pottery brick  
The surface luster measure for plastic and sheet  
The surface luster measure for other non-metal materials

## 3. Instrument Characteristics

Fine, light stylish appearance, easy to carry  
Completely intelligitized design, single key operation, convenient to use  
Automatic adjustment, no need to be hand adjustment  
Multi-angles, choose what you want  
Long life-span lamp- house, no need to change  
Precise measure, excellent repetition performance  
LCD digital display  
There is buzz sound during operation  
Have electrical source pressure shortage indication function  
Turn off automatically

## 4. Technology parameter

Measure range: 0-200GS  
Stability:  $<\pm 0.4$  Gs/30Min  
Value error:  $<\pm 1.2$ Gs  
Power: 1.5V  
Projecting angle: 20°60°85°  
Environment temperature: 0-40  
Relative humidity:  $\leq 85\%$   
Standard panel dimension: 95×40mm

## 5. Display instructions

“GS”--- luster unit  
“CAL OK?”--- adjustment prompt  
2: ???----the luster value of 20°  
6: ???----the luster value of 60°  
8: ???----the luster value of 85°  
“Battery Low ”--- low battery voltage, prompt to change battery

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## 6. Directions

(1). Press the red **POWER** key to start the gauge, and "CAL?" is displaying in the screen, make the gauge measure-window pointing at the black quartz crystal standard board, press the yellow **OP** key to confirm adjustment operation, when "CAL OK" display the screen, the gauge adjustment finished, and then press yellow OP key to measure the black quartz crystal standard board, if the reading on the screen is correct, the adjustment is valid.

(2). After finishing adjustment operation, the gauge is entering into the measure state. Put the gauge on the measured sample, appoint the measure window to the measured object, press the yellow **OP** key, the gauge starts to measure, the luster value of the measured object will display on the screen while there is buzz sound, (**2: ???**----the luster value of 20°; **6: ???**----the luster value of 60°; **8: ???**----the luster value of 85°).

please note that the measured object should be leveled off;

(5). The gauge can be turned off with hand, press **POWER** key, it is in the close state, there is nothing displaying on the screen; if there is no measure operation in the gauge for 3 minutes, it will turn off automatically.

## 7. Matters required attention

(1). It should avoid strong light direct radiation; or it will affect the measure precision.

(2). The standard panel of the gauge should be kept clean, please do not touch the surface with fingers. If there is dirt on the surface, the measure precision will be affected. Wipe it with lens cloth or absolute alcohol.

(3). When the battery is running out, the gauge will display **Battery low** on the screen, which needs to change battery. Open the battery cover, replace the old battery with the new one, please pay attention to the joint line polarity. The battery should be changed when it runs up, otherwise, it stored for a long time may flow the liquid which cause damage of the instrument. It should be taken out and keep proper if it is not used for a long time.

## 8. Services

This instrument has one-year quality guarantee, maintenance for all life. If there are any problem of this product, please contact the dealer in time.

In this direction will find a vision of the measurement technique:

[www.pce-instruments.com](http://www.pce-instruments.com)

**NOTE:** "This instrument doesn't have ATEX protection, so it should not be used in potentially explosive atmospheres (powder, flammable gases)."