

Advancing with technology

ElektroPhysik

Gloss measurement

PicoGloss 562 MC



- **Extremely small, handy two-angle Gloss Meter**
- **20°/ 60°- measuring geometries**
- **3 measuring modes**
- **Integrated mirror-gloss measurement**
- **Automatic change-over of mirror-gloss**
- **Measurements according to:
EN ISO 2813, DIN 67 530,
ISO 7668 und ASTM D 523**

Design

The two-angle gloss meter **PICOGLOSS 562 MC** with the measuring geometries 20° and 60° is one of the smallest gloss measuring instruments that have ever been designed. As a consequent logical further development of the one-angle (60°) gloss meter **PICOGLOSS 560 MC**, also the model 562 MC is as small as a PC mouse and therefore it is extremely suitable for on-site measurements. The 20°/60° measuring geometries and the automatic change-over of mirror-gloss meet the requirements of the gloss ranges "high gloss" (20°) and "medium gloss" (60°) that are mostly used.

Due to the compact dimensions of the measuring instrument and the measuring aperture, gloss measurements can be carried out without difficulties even on small or narrow specimens as well as in places which are not easily accessible.

The sum of these features that have been considered in the development of the **PICOGLOSS 562 MC** makes this gloss meter of the latest generation almost universally applicable.

Special Features

• Handling

Single-key operations make gloss measurements extremely easy and comfortable. The reading remains stored in the display for about 30 s and is then switched off automatically to save the battery. However, the last measured value is preserved and is shown in the display when the instrument is switched on again.

• Display

In addition to the measuring and calibrating values the high-contrast LC display also shows messages and information.

• Calibration

The **PICOGLOSS 562 MC** requires only one calibrating standard for normal two-point calibration. After key pressure the calibration routine runs automatically. The calibration value is stored on the standard (EPROM).

• 20° gloss measurement

Especially for high gloss surfaces.

• 60° gloss measurement

Successfully applied universally by a great number of users for many years, recommended, however, in accordance with the standard for the gloss range "medium gloss" (at 60°: 30- 70 GU).

• Mirror-gloss measurement

Mirror-gloss measurements can be conducted on metallic surfaces. There is an automatic change-over of the measuring range at 150 gloss units (GU).

Indicating range in the 20° measuring mode: 150 - 2000 GU.

Indicating range in the 60° measuring mode: 150 - 1000 GU.

• Detection of external light

The effect of external light can be determined by conducting measurements with the lamp switched off.

• USB interface

The measured data can be transferred to a PC by means of the USB cable supplied and evaluated using the software **PICOSOFT III** *).

• Software PICOSOFT III*)

for data logging and data processing (Excel® list, measuring protocol, etc.).

• Power supply

The **PICOGLOSS 562 MC** is operated by two round cells, the capacity of which is adequate for at least 10,000 measurements. When using a PC, the power supply is taken over by the USB interface of the PC.

Reference-class:

The **PICOGLOSS 560 MC** is supplied with a Manufacturer's Certificate M in accordance with DIN 55 350-18 that includes among others the following information:

Actual and setting values of the gloss standards, product identification, test equipment used with calibration status, date, name of inspector.

In the range up to 100 gloss units the linearity for both measuring geometries is checked by means of 4 gloss standards (the maximum deviation permissible is 1 gloss unit).

Technical Data

Dimensions (L x W x H):	105 x 31 x 73 mm
Net weight:	300 g
Measuring aperture:	10 x 24 mm
Measuring spot:	20°: 9 x 9 mm 60°: 8 x 16 mm
Measuring geometry:	20°/60°
Light source:	LEDs
Detector:	Si-photo-cell
Display:	8-digit LCD height of digits 11,5 mm
PC-interface:	USB
Power supply:	2 round cells (LR03) or USB
Permissible temperature range:	
Storage:	- 10 °C to + 60 °C
Operating (non-dewy):	+ 15 °C to + 40 °C
Reproducibility:	0 to 150 GU: 0,2 GU 150 to 1000 GU: 0,5 GU 1000 to 2000 GU: 1 GU

Reproducibility in case of interfering irradiation (EN 61000-4-3):

1 GU

Order Information	
Order-No.	Product Description
85-800-0118	PICOGLOSS 562 MC Included in the scope of supply: • high gloss standard • battery (2 round cells LR03) • USB cable • lens cloth • transport case • operating instructions

Accessories/Spares	
Order-No.	Product Description
80-800-0119	Medium gloss for 20° gloss measurement
80-800-0121	Medium gloss for 60° gloss measurement
80-800-0122	High gloss standard (spare)
	PICOSOFT III *)

*) The software **PICOSOFT III** is available as free of charge download.

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