

micro-gloss

New!

The new intelligence in gloss measurement

The micro-gloss has been the unsurpassed industry standard in gloss measurement for many years. It is the only glossmeter combining the highest accuracy, ease-of-use and multiple functionality - essential for today`s testing requirements. In addition, the smart-chart software is the ideal tool for smart communication with professional documentation and efficient data analysis.

Brilliant color display: easy to read - easy to use

Ergonomics and easy handling were the main focus for the design. The micro-gloss is not too large and not too small - it feels just right in your hand. The scroll wheel operation and new color display with an easy-to-navigate menu make gloss measurement easier than ever before.

Auto diagnosis: Standard OK - Calibration OK

Accurate readings require reliable calibration. The gloss meter and calibration holder make a perfect couple - the calibration standard is always protected in the holder of the micro-gloss. The intelligent auto diagnosis of the gloss meter is a unique feature which guarantees long-term calibration stability and tells you when to calibrate. It even checks whether the standard is clean. Operator friendly. Safe.



Autodiagnosis	
20°	OK
60°	OK
85°	OK

Gloss of paint or metal - from matte to mirror gloss

With the micro-gloss gloss meter you can measure any material - paints, plastics or brightened metals. Its expanded range measures from very matte to mirror like reflection of up to 2000 gloss units, automatically and without additional calibration. Always reliable results – according to international standards.

Smart functions for any task

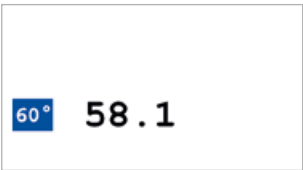
Different tasks require different tools. The easy to turn scroll wheel of the glossmeter quickly shows you all needed functions - even without a PC:

The **Basic mode** is your tool to quickly check the gloss of a few samples.

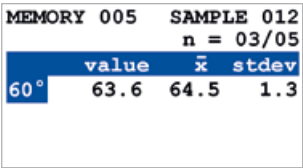
The **Statistic mode** not only shows the average, but all statistical data needed to judge whether the measured difference is significant or how uniform the surface gloss is on your sample. You define what you want to see: mean, standard deviation, range, min/max, ...

The **Difference mode** allows you to define a reference with Pass/Fail limits and will compare all of the following measurements to the selected reference. The Pass/ Fail indication is colorfully shown on the high resolution display – ideal for production control.

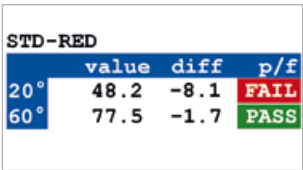
The **Continuous mode** is the most efficient way to quickly check the uniformity of a large sample surface. You define the measurement interval and are now ready to continuously measure the gloss by sliding the micro-gloss over the surface. When finished, the average with min - max range are displayed.



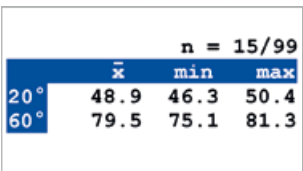
Basic mode



Statistic mode



Difference mode



Continuous mode

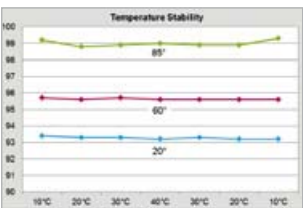
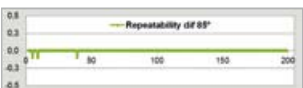
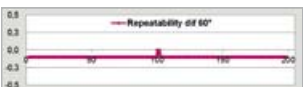
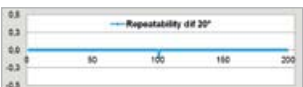
Fast and professional documentation

No matter how harsh your production conditions are or how tight your limits may be, accuracy and reliability of the micro-gloss are proven by thousands of users to guarantee always the highest quality.

The long-term stable LED light source of the glossmeter provides not only highly repeatable results for many years, but also will never burn out. A 10 year warranty on the lamp life is guaranteed.

Due to advanced temperature control, the micro-gloss assures the highest stability of the gloss readings - if you are in the lab or move to a "hot spot" on the line.

Our patented calibration procedure during the production of the glossmeters enables an excellent inter-instrument agreement. No matter how far your customer may be away, if he is one of the thousands of micro-gloss users, he will read the same values as you.



smart-chart

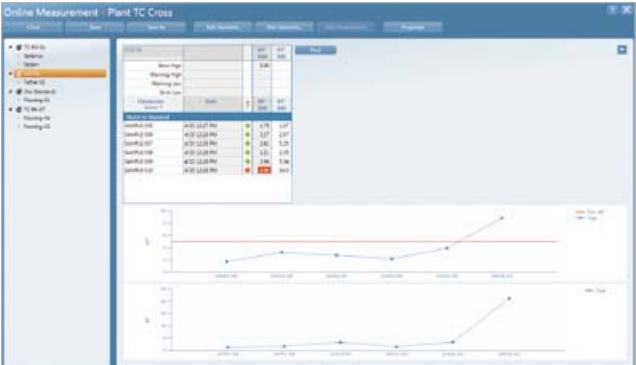
New!

The smart way to communicate



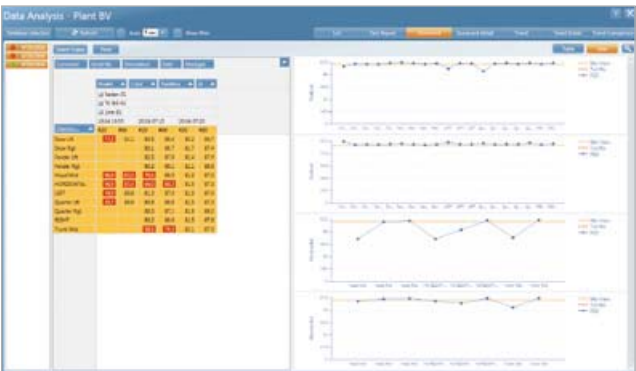
smart-lab Gloss

- Measure your products offline or online and transfer the results to smart-lab Gloss. Immediately, you will get a professional QC-report, including data table and graph.
- Setup your product specifications in the Standard Management module, with Pass - Warning - Fail limits for display in your QC-reports.
- Manage your lab work in projects to show production process stability using trend reports.



smart-process Gloss

- Ideal for products with multiple measurement locations.
- Setup Organizers for menu guided test sequences and clear sample identification.
- Efficient QC analysis for process control with a high sampling rate. The data are saved in a SQL database which allows handling of large data sets over a long time period.
- Flexible data analysis based on defined identification parameters for a certain time range. Monitor your process stability with scorecards, trend reports and SPC charts (box plot).





Please refer to section
Preventive Maintenance.

In compliance with:

Standards

ISO	2813, 7668
ASTM	D 523, D 2457
DIN	67530
JIS	Z 8741

Ordering Information

Cat. No.	Description
4560	micro-gloss 20°
4561	micro-gloss 60°
4562	micro-gloss 85°
4563	micro-TRI-gloss
4564	micro-TRI-gloss μ
4565	micro-gloss 60° S
4566	micro-TRI-gloss S
4567	micro-gloss 45°
4568	micro-gloss 75°
4569	micro-gloss 60° XS
4570	micro-gloss 60° XS-S

Comes complete with:

Glossmeter
Holder with integrated calibration tile
Traceable certificate
USB-cable, Battery
Operating manual
Carrying case
Software for download:
smart-lab Gloss or smart-process Gloss with 2 licenses
Note: After software download both software packages
can be used for 30 day free trial.
Thereafter, the user needs to decide and register
for one software package.
Extended Warranty: see pages about Technical Service

System Requirements:

Operating system: Windows® 7 SP1 or 8.1
Microsoft® . NET Framework 4
Hardware: Core 2 Duo, 2.2 GHz, i7 recommended or equivalent
Memory: 4 GB RAM, 8 GB recommended
Hard-disc capacity: min. 300 MB
Monitor resolution: 1280 x 1024 pixel or higher
Interface: free USB-port

Technical Specifications

Geometry	Application	Measuring Area
20°	high gloss	10 x 10 mm (0.4 x 0.4 in)
60°	semi gloss	9 x 15 mm (0.35 x 0.6 in)
85°	low gloss	5 x 38 mm (0.2 x 1.5 in)
20°, 60°, 85°	universal	see single angle
20°, 60°, 85°	universal	see single angle
60°	semi gloss	9 x 15 mm (0.35 x 0.6 in)
20°, 60°, 85°	universal	see single angle
45°	Ceramic, Plastic, Film	9 x 13 mm (0.35 x 0.5 in)
75°	Paper, Vinyl Siding	7 x 24 mm (0.3 x 0.95 in)
60°	semi gloss	2 x 4 mm (0.08 x 0.16 in)
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Measurement range ¹	0 - 100 GU	100 - 2000 GU
Repeatability ²	± 0.2 GU	± 0.2 %
Reproducibility ²	± 0.5 GU	± 0.5 %
Spectral sensitivity	CIE standard observer for illuminant CIE-C	
Measuring time	0.5 seconds / geometry	
Thickness:		
Substrate	Fe: magnetic, NFe: non-magnetic	
Measurement Range	0 - 500 Mm (0 - 20 mils)	
Accuracy	± (1.5 Mm +2% of measured value)	
Memory	999 readings with date and time	
Interface	USB	
Power supply	one 1.5V AA Alkaline Battery 4,000 readings or via USB-port	
Dimensions	155 x 73 x 48 mm (6.1 x 2.9 x 1.9 in)	
Weight	0.4 kg (0.9 lbs)	
Operating temperature	15 - 40 °C (60 - 104 °F)	
Relative humidity	up to 85 %, non-condensing	

¹ for 45° and 75° glossmeters see previous pages

² for S-Type glossmeters see previous page

Ordering Information

Cat. No.	Description
4405	USB-Cable micro-gloss family
4866	Software smart-lab Gloss
4867	Software smart-process Gloss

Note: smart-chart license fee for more than two installations is quantity dependent. Please contact your local BYK-Gardner representative.

Accessories

For data transfer from the glossmeter to a PC, USB-A	
Software for professional analysis and documentation in the laboratory	
Process QC Software for analysis of multi-component products	
Export / Import	Standards (.xml format) Organizer (.xml format)
Languages	English, German, French, Italian, Spanish, Chinese, Japanese