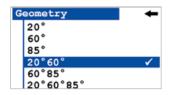
micro-TRI-gloss

See changes under the right angle

High - medium - low gloss: What is your application?

The micro-TRI-gloss combines 20°, 60°, 85° in one glossmeter – as handy as the one angle unit. Having three geometries in one unit allows you to be in compliance with international standards and to quickly recognize quality variations.

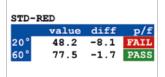


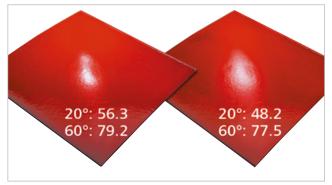
In order to obtain differences clearly, over the whole range from matte to high gloss, three measurement geometries were specified in international glossmeter standards. Each geometry is optimized for a specific gloss range.

O BYK

All selected angles measure at the same location and the results are displayed instantly – including Statistics, Difference, or Pass/Fail.

The different gloss of these two samples is more clearly shown in the 20° readings.





micro-TRI-gloss μ

Gloss and Film Thickness in one Instrument

An efficient coatings process should use as little paint as possible and fulfill the quality specifications given by the customer. Gloss and film thickness are important QC criteria for coatings.

The micro-TRI-gloss M measures both, at the same position and in seconds. This saves time and is ideal for checks in the field – only one instrument to carry.

- Simultaneous display 20°, 60°, 85° for high gloss to matte coatings
- Dual sensor Fe/NFe measures thickness on stell as well as on aluminum



	<u> </u>
Gloss	Thickness
2813, 7668	2178, 2360, 2808
D523	B499, D1400
675301	
	2813, 7668 D523

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
4573	micro-gloss 60° robotic
4576	micro-gloss 60° S robotic

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 beused for 30 days free trail.

Thereafter, the user needs to decide and register for one software package.

System Requirements:

Operating system: Windows® 7 SP1, 8.1 or 10

Microsoft® . NET Framework 4.5.2

Hardware: Core 2 Duo, 2.5 GHz, i7 recommended or equivalent

Memory: 4 GB RAM, 8 GB recomended Hard-disc capacity: 2 GB during installation Monitor resolution: 1280 x 1024 pixel or higher

Interface: free USB-por

Technical Specifications

Geometry	Application	Measuring Area
	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
60°	semi gloss	2 x 4 mm (0.08 x 0.16 in)
60°	semi gloss	9 x 15 mm (0.35 x 0.6 in
60°	semi gloss	9 x 15 mm (0.35 x 0.6 in)
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	r illuminant CIE-C
Measuring time	0.5 seconds / geometry	
Thickness:		
Substrate	Fe: magnetic, NFe: non-r	nagnetic
Measurement Range	0 - 500 μm (0 - 20 mils)	
Accuracy	± (1.5 μm +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-condens	sing
¹ for 45° and 75° glossmete	rs see previous pages	<u> </u>

for 45° and 75° 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				
Standards (.xml format)				
Organizer (.xml format)				
English, German, French, Italian,				
Spanish, Chinese, Japanese				

 $^{^{\}mathrm{2}}$ for S-Type glossmeters see previous page