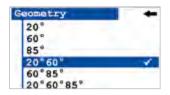
## micro-TRI-gloss

### 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.

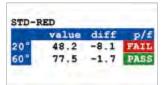


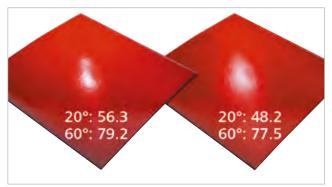
In order to obtain differences clearly, over the whole range from matte to high gloss, three measurement geometries were specified in international glossmeter standards. Each geometry is optimized for a specific gloss range.

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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 steel as well as on aluminum



Gloss	Thickness
2813, 7668	2178, 2360, 2808
D523	B499, D1400
67530	
	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 M	
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 $^{\circ}$  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

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	•		
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)	
	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)	
Measurement range <sup>1</sup>	0 - 100 GU	100 - 2000 GU	
Repeatability <sup>2</sup>	± 0.2 GU	± 0.2 %	
Reproducibility <sup>2</sup>	± 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		

 $<sup>^{\</sup>text{1}}$  for 45° and 75° glossmeters see previous pages



#### **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 glossm	neter 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	

<sup>&</sup>lt;sup>2</sup> for S-Type glossmeters see previous page