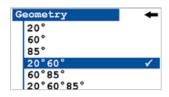
micro-TRI-gloss

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.

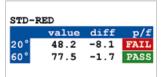


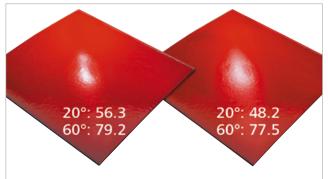
In order to obtain differences clearly, over the whole range from matte to high gloss, three measurement geometries were specified in international glossmeter standards. Each geometry is optimized for a specific gloss range.

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 steel as well as on aluminum





| Standards | | |
|-----------|------------|------------------|
| | Gloss | Thickness |
| ISO | 2813, 7668 | 2178, 2360, 2808 |
| ASTM | D523 | B499, D1400 |
| DIN | 67530 | |

Labequip ltd 2-170 Shield Ct Markham, Ontario L3R 9T5 905-475-5880



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

 $\mathsf{Microsoft}^{\circledast}$. 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

| Technical Specificati | ons | |
|--------------------------------|---------------------------------------|---------------------------|
| 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) |
| 60° | semi gloss | 2 x 4 mm (0.08 x 0.16 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 fo | r illuminant CIE-C |
| Measuring time | 0.5 seconds / geometry | |
| Thickness: | | |
| Substrate | Fe: magnetic, NFe: non-r | nagnetic |
| 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 Bat | ttery 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 | |
| | | |

 $^{^{\}text{1}}$ 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 glos | ssmeter to a PC, USB-A | |
|---------------------------------|------------------------------------------|--|
| Software for professional analy | ysis and documentation in the laboratory | |
| Process QC Software for analy | rsis of multi-component products | |
| Export / Import | Standards (.xml format) | |
| | Organizer (.xml format) | |
| Languages | English, German, French, Italian, | |
| | Spanish, Chinese, Japanese | |

² for S-Type glossmeters see previous page