

**TQC GLOSS METERS**

GL0010, GL0020, GL0030

DATASHEET

**PRODUCT DESCRIPTION**

The TQC Gloss meter allows the user to measure fast and simple accurate gloss levels on any flat surface. Whether it be paper, paint, plastic, wood or any other material. No special training or skills are required. Just place the gauge, press the scan button and read the values. Template options can also provide non-flat surfaces and small test areas.

Three models are available:

**TQC SOLOGloss®**

The 60° single-angle instrument of the TQC Gloss meter range. Preferred instrument for measurements in the semi-gloss range. Suitable for most applications. Light source and detector are positioned under an angle of 60° of the surface to be measured.

**TQC DUOGloss®**

The TQC-Duoglossmeter is a versatile instrument that combines the 20° and 60° angle into one gloss meter. The 20° angle is ideal for measurements in the high-gloss area while the 60° covers the semi-gloss range.

**TQC POLYGloss®**

The top of the TQC -Gloss meter range is the triple angle instrument PolyGloss. Besides a 20° and 60° measuring angle the TQC PolyGloss is also equipped with a 85° measuring angle thus covering the entire gloss-spectrum . The 85° is for low gloss levels ( high diffuse reflection ) or mat surfaces.\*

(Depending on the model the instrument can be set to measure and display just one or several measurement angles simultaneously.)

\*The TQC Polygloss will be available Q1/2013

**BUSINESS**

- Automotive
- Paint and coatings
- Paper
- Plastics
- Flooring
- Packaging material
- Yacht and boat builders
- Furniture production
- White goods
- Consumer Electronics
- Ceramics
- Foodstuffs
- And many more...

**STANDARDS**

ISO 2813; ASTM D523; ASTM D2457; ASTM C584; AS 1580 (602.2); BS 3900 D5; DIN 67530; JIS Z 8741; ISO 7668; MFT 30064 (exception 45° angle)

Look up the appropriate standard for a correct execution of the test.

## FEATURES

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- Optical stability
- LED light source
- OLED Display, extremely high visibility and contrast
- Ergonomic shape for both right- and left handed users
- USB B port
- Integrated Calibration
- Menu driven operation

## SCOPE OF SUPPLY

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Each TQC Glossmeter comes with the following items:

- TQC Glossmeter (20°/60°/85° depending on your model)
- 2 AA type batteries
- Plastic case
- Screwdriver
- USB stick with TQC Ideal Finish Analysis software
- Micro fibre cleaning towel
- USB cable
- Calibration certificate

## ORDERING INFORMATION

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GL0010 TQC SoloGloss 60°

GL0020 TQC DuoGloss 60°/20°

GL0030 TQC PolyGloss 60°/20°/85°

## SPECIFICATIONS

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### Applied products:

GL0010	TQC SoloGloss 60°
GL0020	TQC DuoGloss 60°/20°
GL0030	TQC PolyGloss 60°/20°/85°

### Operational:

Calibration Standard:	Integrated tile in dust cover
Display:	High Contrast OLED display
Light source:	Extreme low drift LED light source
Batches:	max 8
Readings per batch:	max 500, non-dependant of number of angles
Total max Readings:	2000 readings with time stamp
Scan function:	Yes
Statistics:	Min. / Max. / Avg. / Std.dev / number of measurements
Security:	Password protection
Software:	Ideal Finish Analysis

Dimensions:

Size: 90 x 140 x 45 mm / 3,54 x 5,551 x 1,7 " (h x w x d)  
Weight: 398 g

Measurement:

Base dimensions: 45 x 130mm / 1,7x5,12  
Orifice size: 10 x 50mm / 0,4x2,0"  
Spot size:  $\pm 5 \times 5 \text{ mm @ } 20^\circ / 0,2 \times 0,2'' @ 20^\circ$   
 $\pm 20 \times 9 \text{ mm @ } 60^\circ / 0,8 \times 0,35'' @ 60^\circ$   
 $\pm 40 \times 9 \text{ mm @ } 85^\circ / 1,5 \times 0,35'' @ 85^\circ$

Measurement speed: 70 measurements per minute at 3 angles

Simultaneous measurement: 3 geometries

Power saver option: User selectable.

Units: Gloss Units (GU)

Resolutions: 0,1 GU (0-100GU)  
1GU (>100GU)

	20°	60°	85°
Range	0-2000 GU	0-2000 GU	0-2000 GU
Repeatability r*	0,4 GU	0,2 GU	0,2 GU
Reproducibility R*	1,69 GU	1,58 GU	1,88 GU
Bias*	1,2 GU	0,6 GU	1,6 GU
*Acc. ISO 2813 (range 0-100 GU)			

## Warranty

TQC will grant a warranty for a period of 12 months for TQC Glossmeter and 12 months for all related equipment from the date of delivery in respect of any evidence of faulty workmanship and materials. TQC will extend the warranty for TQC Glossmeter to a period of 24 months from the date of delivery if TQC Glossmeter is licensed via the TQC Ideal Finish Analysis software.

## USE

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No special training or skills are required. Just place the gauge, press the scan button and read the values.

## SPECIAL CARE

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- Though robust in design, this instrument is precision-machined. Never drop it or knock it over
- Always clean the instrument after use.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Do not use compressed air to clean the instrument.
- Always keep the instrument in its case when not in use.
- We recommend annual calibration

## **SAFETY PRECAUTIONS**

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- Avoid using it in over-high or over-low temperature environment
- Avoid humidity

## **DISCLAIMER**

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The right of technical modifications is reserved.

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.