Rhopoint Instruments Limited is a member of the Rhopoint Group

www.rhopointinstruments.com

Rhopoint
INSTRUMENTS

NOVO-GLOSS™

- 60° • 20/60° • 20/60/85° GLOSSMETER
- Lightweight and portable
- Fully featured instrument
- Bluetooth data transfer
INTRODUCING THE NOVO-GLOSS SINGLE, DUAL AND TRIGLOSS GLOSSMETERS

GLOSS measurements are fully compatible with existing Novo-Gloss Lite and Micro-TRI-gloss results. Single 60°, Dualgloss 20/60° or Trigloss 20/60/85° versions are for maximum accuracy and resolution in all gloss applications.

IMPROVED PERFORMANCE IN ALL GLOSS APPLICATIONS
Gloss is an aspect of the visual perception of objects that is as important as colour when considering the psychological impact of products on a consumer.

It has been defined as ‘The attribute of surfaces that causes them to have shiny or lustrous, metallic appearance.’

The gloss of a surface can be greatly influenced by a number of factors, for example the smoothness achieved during polishing, the amount and type of coating applied or the quality of the substrate.

Manufacturers design their products to have maximum appeal: highly reflective car body panels, gloss magazine covers or satin black designer furniture.

It is important therefore that gloss levels are achieved consistently on every product or across different batches of products.

Gloss can also be a measure of the quality of the surface, for instance a drop in the gloss of a coated surface may indicate problems with its cure, leading to other failures such as poor adhesion or lack of protection for the coated surface.

It is for these reasons that many manufacturing industries monitor the gloss of their products, from cars, printing and furniture to food, pharmaceuticals and consumer electronics.

ISO 2813 and ASTM D523 (the most commonly used standards) describe three measurement angles to measure gloss across all surfaces.

Gloss is measured in gloss units (GU) and is traceable to reference standards held at BAM (Germany), NRC (Canada) or NPL (UK).

Universal Measurement Angle: 60°

All gloss levels can be measured using the standard measurement angle of 60°. This is used as the reference angle with the complimentary angles of 85° and 20° often used for low and high gloss levels respectively.

Low Gloss: 85°

For improved resolution of low gloss a grazing angle of 85° is used to measure the surface. This angle is recommended for surfaces which measure less than 10GU when measured at 60°. This angle also has a larger measurement spot which will average out differences in the gloss of textured or slightly uneven surfaces.

High Gloss: 20°

The acute measurement angle of 20° gives improved resolution for high gloss surfaces. Surfaces that measure 70GU and above at the standard angle of 60° are often measured with this geometry.

The 20° angle is more sensitive to haze effects that affect the appearance of a surface.

To quantify haze, distinctness of image, reflected image quality and other surface texturing please consider the Rhopoint IQ.
**FEATURES**

**Measurement**

Fast measurement of all parameters. Full on-board statistics with graphical trend analysis and reporting.

Simultaneous measurement of all parameters, results are date and time stamped.

Displays full statistics for the number of readings in the current batch.

Graphical reporting for quick trend analysis.

Pass / fail parameters can be defined for instant identification of non-conformances.

**Easy Batching**

User definable batch names and batch sizes for quicker and more efficient reporting.

**Rapid data transfer**

Software-free data transfer.

USB connection to PC instantly recognises the device as a drive location which facilitates the quick transfer of files using Windows Explorer or similar.

**Direct data input via Bluetooth**

Instantly transmit measured readings directly to programs such as MS Excel on your PC / tablet to greatly simplify the reporting process.

**Statistical analysis via Novo-Gloss Multi Gauge Software**

This software provides an easy means to measure, import and compare data and export the measurements into several other file formats, e.g. PDF, Excel® or CSV.
## The Ultimate Glossmeter

**Improved accuracy and resolution on high gloss & metallic samples (>70GU when measured at 60°)**

**Measurement range:** 0-2000 GU

**Universal angle – all gloss levels**

**Measurement range:** 0-1000 GU

**Improved resolution for matt finishes (<10GU when measured at 60°)**

**Measurement range:** 0-199 GU

**Repeatability:** ±0.2 GU ±0.2 %

**Reproducibility:** ±0.5 GU ±0.5 %

**Standards:**
- ISO 2813, ISO 7668
- ASTM D523, ASTM D2457
- DIN 67530
- JIS 8741, JIS K 5600-4-7

*Verified performance on 20° angle for 20/60/85°*

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### Sample Applications

- **Automotive**
- **Smartphone, Tablet PC and Laptop Covers**
- **Automotive Coatings**
- **Yacht Manufacturers**
- **Paints and Coatings**
- **Printing Ink**
- **Powder Coating**
- **Plastics Industry**
- **Automotive Re-finish**
- **Furniture**
- **Metal Polishers**
- **Polished Stone**
- **Wood Coatings**

### Specifications

#### Gloss

60°, 20/60° and 20/60/85°* versions available

<table>
<thead>
<tr>
<th>Angle</th>
<th>Description</th>
<th>Measurement Range</th>
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<tbody>
<tr>
<td>20°</td>
<td>Improved accuracy and resolution on high gloss &amp; metallic samples (&gt;70GU when measured at 60°)</td>
<td>0-2000 GU</td>
</tr>
<tr>
<td>60°</td>
<td>Universal angle – all gloss levels</td>
<td>0-1000 GU</td>
</tr>
<tr>
<td>85°</td>
<td>Improved resolution for matt finishes (&lt;10GU when measured at 60°)</td>
<td>0-199 GU</td>
</tr>
</tbody>
</table>

- **Resolution:** 0.1 GU
- **Repeatability:** ±0.2 GU ±0.2 %
- **Reproducibility:** ±0.5 GU ±0.5 %
- **Standards:**
  - ISO 2813, ISO 7668
  - ASTM D523, ASTM D2457
  - DIN 67530
  - JIS 8741, JIS K 5600-4-7

*Verified performance on 20° angle for 20/60/85°*
INCLUDED ACCESSORIES

- Certified calibration tile with certificate
- USB data cable
- Wrist strap
- Novo-Gloss Multi Gauge Software
- USB
  - Instruction manual
  - Bluetooth data app
  - Example Excel spreadsheets
  - Instructional videos

EXTRAS

FREE EXTENDED WARRANTY
FREE LIGHT SOURCE WARRANTY

Guaranteed for the life of the instrument

CALIBRATION AND SERVICE

Fast and economic service via our global network of accredited calibration and service centres. Please visit www.rhopointinstruments.com/support for detailed information.

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