RHOPOINT INSTRUMENTS

RHOPOINT AMERICAS



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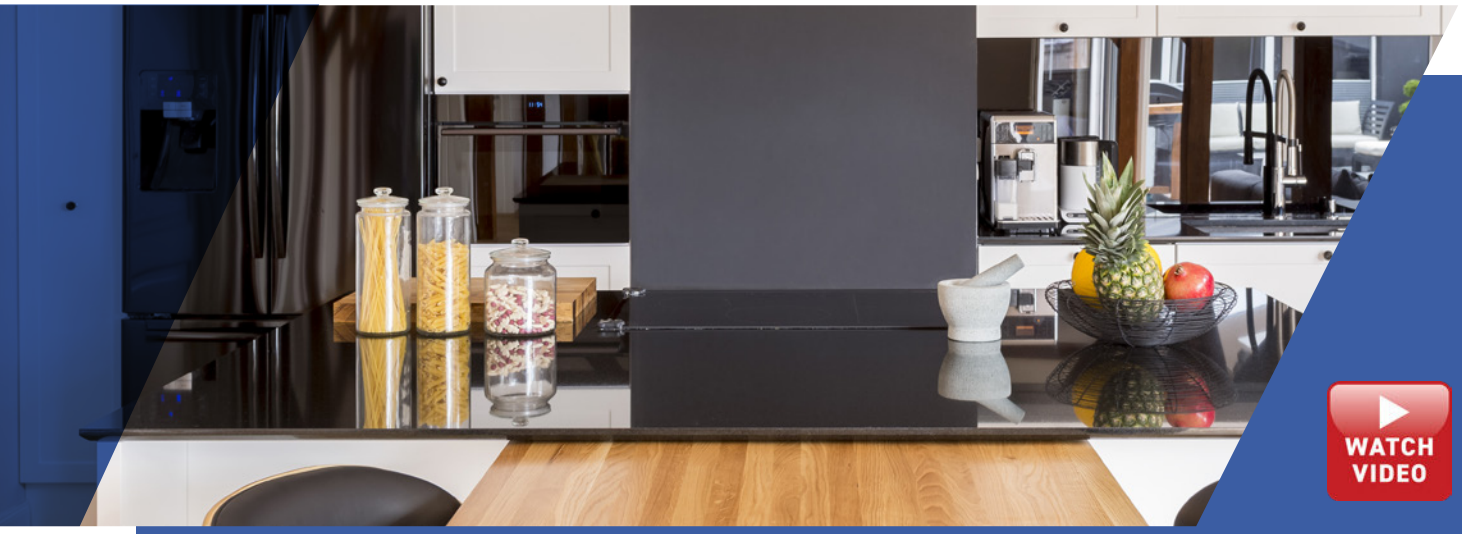
RHOPOINT NOVO-GLOSS™

## Novo-Gloss Glossmeters

- 60° Glossmeter
- 20/60/85° Glossmeter
- 45° Glossmeter

Manufactured by Rhopoint Instruments in the United Kingdom MADE IN BRITAIN®

# Why measure gloss?




## The gloss level of an object is one of the visual attributes used by a consumer to determine whether or not that object is fit for purpose.

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

Manufacturers design their products to have maximum appeal: from highly reflective car body panels to glossy household appliances or matt finish automotive interior trim.

This is especially noticeable where parts may be produced by different manufacturers or factories but will be placed adjacent to one another to create the finished product.

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.

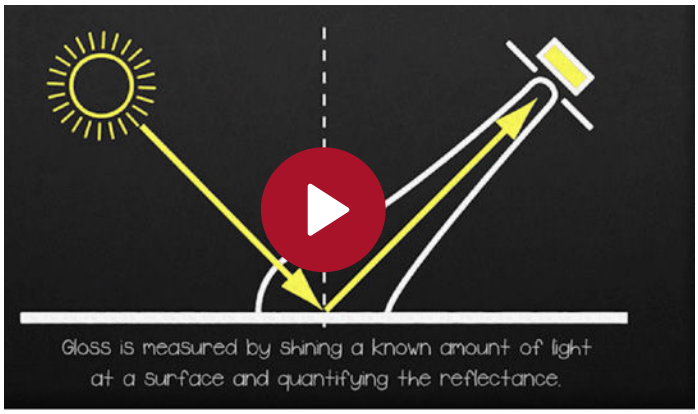


The gloss of a surface can be greatly influenced by a number of factors, for example the smoothness achieved during polishing, the amount and type of coating applied or the quality of the substrate.

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.

# How is gloss measured?

**Gloss is measured by shining a known amount of light at a surface and quantifying the reflectance.**



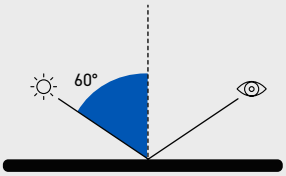

The angle of the light and the method by which the reflectance is measured are determined by the surface material and which aspect of the surface appearance is to be measured.

## Which angle should I use for my application?

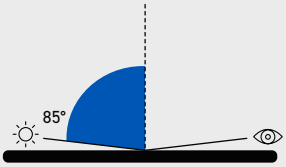
ISO 2813 and ASTM D523 (the most commonly used standards) describe three measurement angles to measure gloss across all surfaces.

Gloss is measured in gloss units (GU) and is traceable to reference standards held at a National Metrology Institute.



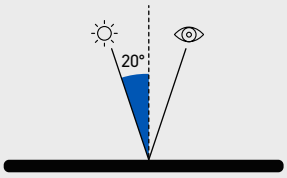



**Universal Measurement Angle: 60°**
All gloss levels can be measured using the standard measurement angle of 60°. This is used as the reference angle with the complimentary angles of 85° and 20° often used for low and high gloss levels respectively.



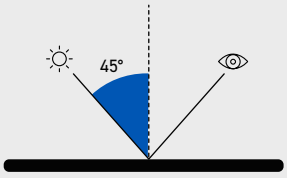

**Low Gloss: 85°**
For improved resolution of low gloss a grazing angle of 85° is used to measure the surface. This angle is recommended for surfaces which measure less than 10GU when measured at 60°.

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.




**Speciality measuring angle: 45°**
This measuring angle is in accordance with the ASTM D2457 standard for the gloss measurement of plastic films and solid plastic parts as well as according to the standard ASTM C346 for the gloss measurement of ceramics

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

# Rhopoint Novo-Gloss range of glossmeters

**Single 60°, Single 45° and Trio 20/60/85° for maximum accuracy and resolution in all gloss applications.**




Novo-Gloss 60




Novo-Gloss 45




Novo-Gloss Trio

| Model | 20° Gloss HIGH GLOSS | 45° Gloss SPECIALITY ANGLE | 60° Gloss ALL GLOSS FINISHES | 85° Gloss LOW GLOSS FINISHES | |
|---|---|---|---|---|---|
| **Novo-Gloss 60** | - | - | ✓ | - | Shop |
| **Novo-Gloss 45** | - | ✓ | - | - | Shop |
| **Novo-Gloss Trio** | ✓ | - | ✓ | ✓ | Shop |

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# The Rhopoint Novo-Gloss

## Applications



Paints and Coatings



Yacht Manufacturers



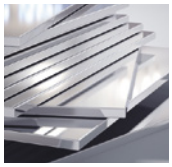
Automotive Re-finish



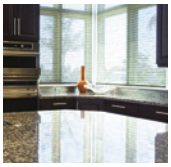
Smart devices, PC & Laptop Covers



Furniture



Metal Polishers



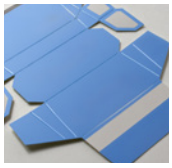
Polished Stone



Wood Coatings



Automotive



Printed Cartons



Plastics Industry



Printing Ink



Aerospace



Detailing

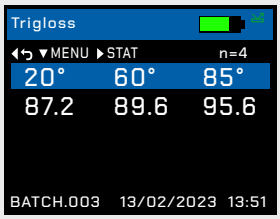


Textile

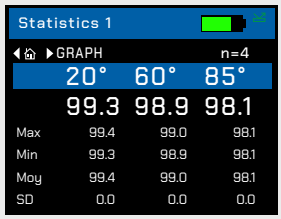


Powder Coating

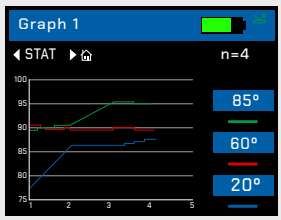
## Features



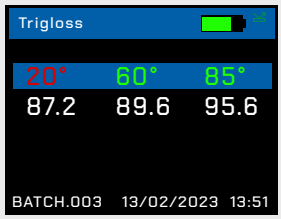

**Measurement**
Simultaneous measurement of all parameters in GU or % reflectivity, date and time stamped.



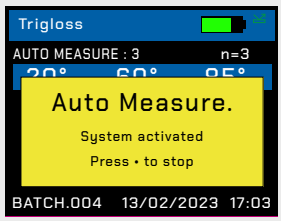

**Statistics**
Displays full statistics for the readings in the current batch.



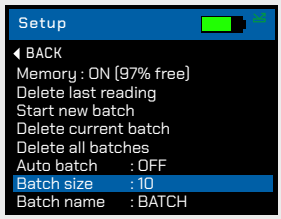

**Graphical**
Graphical reporting for quick trend analysis.




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



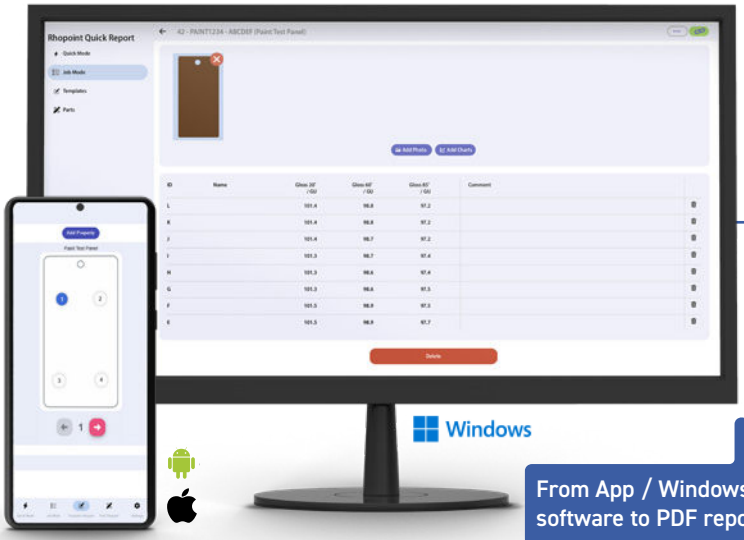

**Automatic Measurement**
Automatic measurements at pre-defined intervals for easy checking of large surface areas.




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

# The Rhopoint Quick Report App

**The Quick Report App from Rhopoint is a quick and easy to use reporting package designed to enhance the functionality & reporting capabilities of the Novo-Gloss gloss meters.**




RHOPOINT QUICK REPORT

| Gloss 20° / GU | Gloss 60° / GU | Gloss 85° / GU |
|---|---|---|
| 101.4 | 98.8 | 97.2 |

*Values for all measured parameters given per measurement spot*

From App / Windows software to PDF report




1. Configure a template of your sample to be tested and add measurement spots.
2. Make measurements directly into the app.

| ID | Device | Spot # | Gloss 20° /GU | Gloss 60° /GU | Gloss 85° /GU | Comment |
|---|---|---|---|---|---|---|
| A | Novo-Gloss | 1 | 98.2 | 97.5 | 99.5 | --- |
| B | Novo-Gloss | 1 | 98.2 | 97.5 | 99.5 | --- |
| C | Novo-Gloss | 1 | 98.1 | 97.5 | 99.4 | --- |
| D | Novo-Gloss | 2 | 98.2 | 97.5 | 99.5 | --- |
| E | Novo-Gloss | 2 | 98.1 | 97.5 | 99.5 | --- |
| F | Novo-Gloss | 2 | 98.1 | 97.4 | 99.4 | --- |
| G | Novo-Gloss | 3 | 98.1 | 97.5 | 99.4 | --- |
| H | Novo-Gloss | 3 | 98.1 | 97.4 | 99.4 | --- |
| I | Novo-Gloss | 3 | 98.1 | 97.4 | 99.4 | --- |

- Simplify data collection & processing.
- Create custom templates.
- Add images.
- Create branded reports.

3. Readings are transferred from the measurement device to the app via Bluetooth allowing customised PDF reports to be easily generated.

The app will work on Android, IOS and a PC using web browser or application installation.

Available on the App Store

GET IT ON Google Play

app.rhopointinstruments.com

# Specifications

| 20° Gloss | | |
|---|---|---|
| **Range (GU)** | 0–100 | 100-2000 |
| **Repeatability** | 0.2 (GU) | 0.2% |
| **Reproducibility** | 0.5 (GU) | 0.5%* |
| **Resolution (GU)** | 0.1 | |
| **Measurement Area** | 6.0 x 6.4 (mm) | |
| **Standards** | ISO 2813 ASTM D523 ISO 7668 ASTM D2457 DIN 67530 JIS Z 8741 | |

**Recommended product**

- Novo-Gloss Trio

| 45° Gloss | | |
|---|---|---|
| **Range (GU)** | 0-60 | 60-1000 |
| **Repeatability** | 0.2 (GU) | 0.2% |
| **Reproducibility** | 0.5 (GU) | 0.5%* |
| **Resolution (GU)** | 0.1 | |
| **Measurement Area** | 8 x 12mm ellipse | |
| **Standards** | ASTM D2457 ASTM C346 | |

**Recommended product**

- Novo-Gloss 45

| 60° Gloss | | | |
|---|---|---|---|
| **Range (GU)** | 0–10 | 10–100 | 100–1000 |
| **Repeatability** | 0.1 (GU) | 0.2 (GU) | 0.2% |
| **Reproducibility** | 0.2 (GU) | 0.5 (GU) | 0.5%* |
| **Resolution (GU)** | 0.1 | | |
| **Measurement Area** | 6.0 x 12.0 (mm) | | |
| **Standards** | ISO 2813 ASTM D523 ISO 7668 ASTM D2457 DIN 67530 JIS Z 8741 | | |

**Recommended product**

- Novo-Gloss 60
- Novo-Gloss Trio

| 85° Gloss | | |
|---|---|---|
| **Range (GU)** | 0–100 | 100–199 |
| **Repeatability** | 0.2 (GU) | 0.2% |
| **Reproducibility** | 0.5 (GU) | 0.5%* |
| **Resolution (GU)** | 0.1 | |
| **Measurement Area** | 4.4 x 44.0 (mm) | |
| **Standards** | ISO 2813 ASTM D523 ISO 7668 ASTM D2457 DIN 67530 JIS Z 8741 | |

**Recommended product**

- Novo-Gloss Trio

* A mirror gloss calibration standard is required to achieve this reproducibility

# Specifications

## Instrument Information

| | |
|---|---|
| **Battery Type** | Rechargeable lithium ion |
| **Operation (hours)** | 17+ |
| **Readings per charge** | 20,000+ |
| **Memory** | 8MB, 2,000 readings |
| **Operating Temperature** | 15-40°C (60-104°F) |
| **Operating Humidity** | Up to 85%, non condensing |
| **Commodity Code** | 9027 5000 |

## Dimensions & Weights

| | |
|---|---|
| **Dimensions** | 65mm x 140mm x 50mm (H x W x D) |
| **Weight** | 390g |
| **Packed weight** | 1.6kg |
| **Packed dimensions** | 110mm x 280mm x 220mm (H x W x D) |

## Included Accessories

| | |
|---|---|
| **Certificates** | Instrument calibration certificate<br>ISO 17025* tile calibration certificate |
| **Cables** | USB data & mains cable |
| **Calibration standard** | High gloss calibration standard with cleaning cloth |
| **Wrist strap** | |

## Order Codes

| | |
|---|---|
| **Novo-Gloss 60** | A4000-008 |
| **Novo-Gloss Trio 20/60/85** | A4000-006 |
| **Novo-Gloss 45** | A4000-011 |
| **Mirror gloss calibration standard** | B6000-101 |
| **Protective travel case** | M1000-016 |



Included case with accessories



Protective travel case (optional)

**Free extended 2 year warranty:**
Requires registration at www.rhopointinstruments.com within 28 days of purchase.
Without registration, 1 year standard warranty applies.

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

**Languages:**

*ISO17025 is applicable for angles 20/60/85 not 45°

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# TRY BEFORE YOU BUY

## We offer three options for you to try out the Novo-Gloss Glossmeters before buying

1. **Online demonstration:** Online presentation of the Rhopoint Novo-Gloss with your samples measured LIVE on Microsoft Teams. Includes a consultation with an application specialist.

2. **Factory sample testing:** Send in samples of your material for testing and receive a comprehensive test report.

3. **Test on premises**: Ask us for a live demonstration and test of the device at your premises (not available in all regions).

Arrange a demo

Ready to receive a quote? Click here


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