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**RHOPOINT**  
**NOVO-GLOSS** 

### Novo-Gloss Flex 60

- Measures small footprint areas
- Measure curved and hard to reach surfaces
- Enhanced accuracy measurement of low gloss finishes

# The Rhopoint Novo-Gloss Flex 60



Designed specifically to measure the gloss of surfaces that cannot be measured using traditional glossmeters, the Novo-Gloss Flex 60 Glossmeter combines the functionality and reporting of an advanced glossmeter with an ultra-lightweight remote measuring head.

## Improved performance in low gloss applications

The Novo-Gloss Flex 60 has been designed specifically to measure low gloss surfaces. It features an additional measuring scale with a resolution 10 times greater than standard glossmeters. This increased resolution gives a far superior level of control of surface finish.

The Novo-Gloss Flex 60 complies to ISO 2813 and measurements made with the instrument are compatible with traditional glossmeters complying to these standards.

Previously only available for measuring flat surfaces, this technology is now available in a new format specifically designed for curved surfaces, as well as small and delicate parts.

The Novo-Gloss Flex 60  
can measure:

- 60° Gloss
- Small surface areas
- Curved surfaces
- Hard to reach surfaces



# Why measure gloss?



**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.**

Gloss has been defined as 'The attribute of surfaces that causes them to have a 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: from highly reflective car body panels to glossy magazine covers 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.

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.



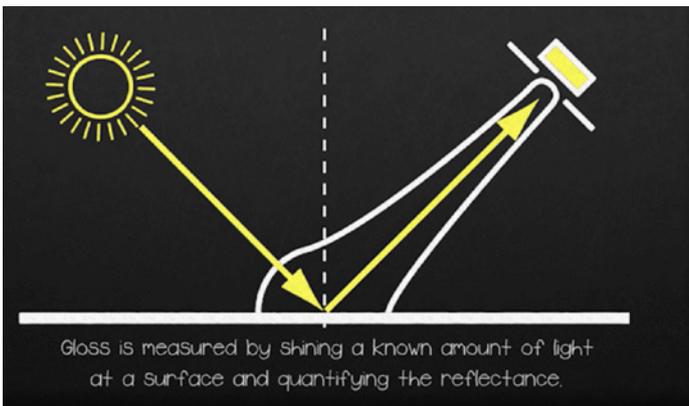
It is important therefore that gloss levels are achieved consistently on every product or across different batches of products.



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.

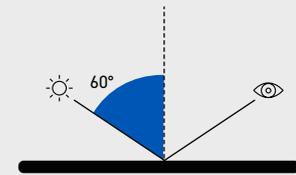


The angle of the light and the method by which the reflectance is measured are determined by the surface material and which aspect of the surface appearance is to be measured.

## Which angle should I use for my application?

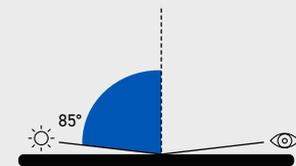
ISO 2813 and ASTM D523 (the most commonly used standards) describe three measurement angles to measure gloss across all surfaces.

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



### Universal Measurement Angle: 60°

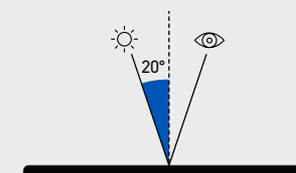
All gloss levels can be measured using the standard measurement angle of 60°. This is used as the reference angle with the complimentary angles of 85° and 20° often used for low and high gloss levels respectively.



### 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.



# Features and Applications

Designed for the measurement of small and curved surfaces.

Full colour easy to read screen,  
display can be rotated from  
landscape to portrait

Integrated measurement  
button for single handed  
operation



Measuring head



### Touch sensitive button interface

Easy to control and  
take measurements



### Easy batching

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



### Automatic measurement

Single button push to  
initiate a defined number  
of measurements



Curved plastic  
parts



Automotive  
interior trim



Plastics  
industry

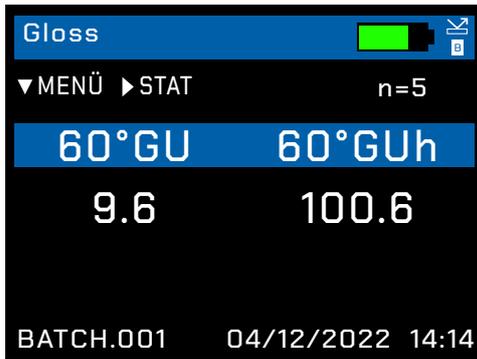


Furniture

The gloss measured by the Novo-Gloss Flex 60 allows the user to quantify and control the surface textures that reduce the perceived quality of manufactured products.

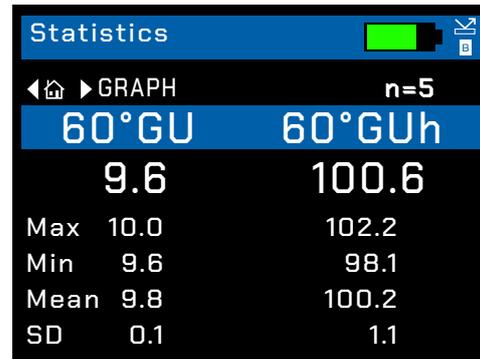
# Measurement features

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



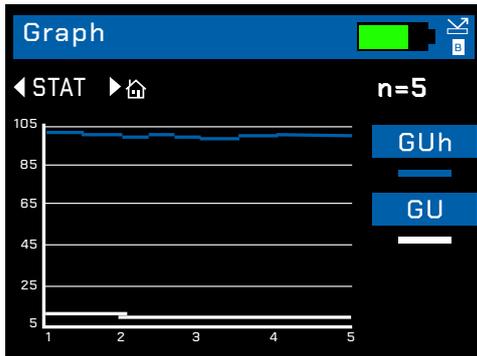
### Measurement

Simultaneous measurement of all parameters, date and time stamped.



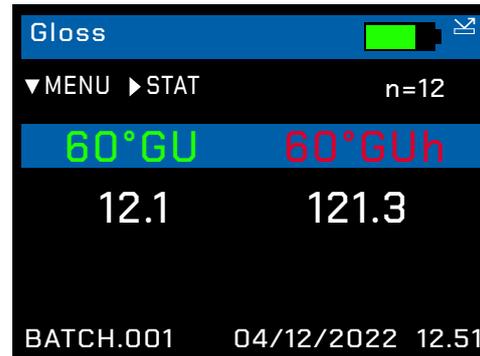
### Statistics

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



### Graphs

Graphical reporting for quick trend analysis.



### Pass / Fail Parameters

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



### Batch names

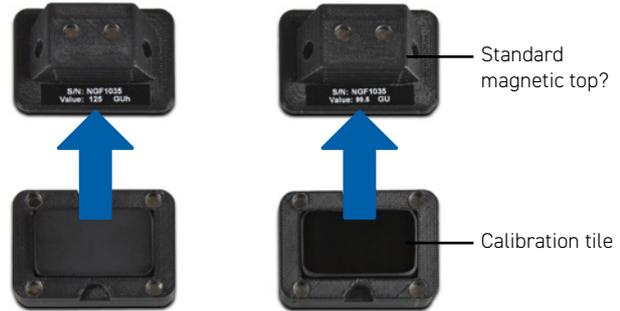
User definable batch names and batch sizes for quicker and more efficient reporting.

# Calibration Standards

For accurate measuring, calibrating the Novo-Gloss Flex 60 every day, when changing between the standard head and adaptor is essential.

## Step 01

The Novo-Gloss Flex 60 is supplied with 2 calibration standards for low and high gloss which gives increased accuracy and resolution for low gloss surfaces.



## Step 02

The calibration standards are magnetically enclosed which offers superior protection from contamination.



The top and bottom snap together magnetically to create one sealed calibration standard

## Step 03

The standards are magnetically attached to the instrument measuring head to ensure repeatable calibration.



# Measurements head

The instrument is supplied with interchangeable measurement adaptors.



The measuring head is ultra lightweight with integrated measurement buttons for single handed operation. Both adaptors can be replaced if they are damaged.



Measures curvature in a single direction



Measures ultra-matt finishes



Measures curvature in both directions

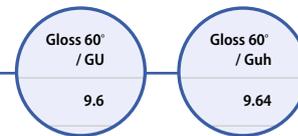
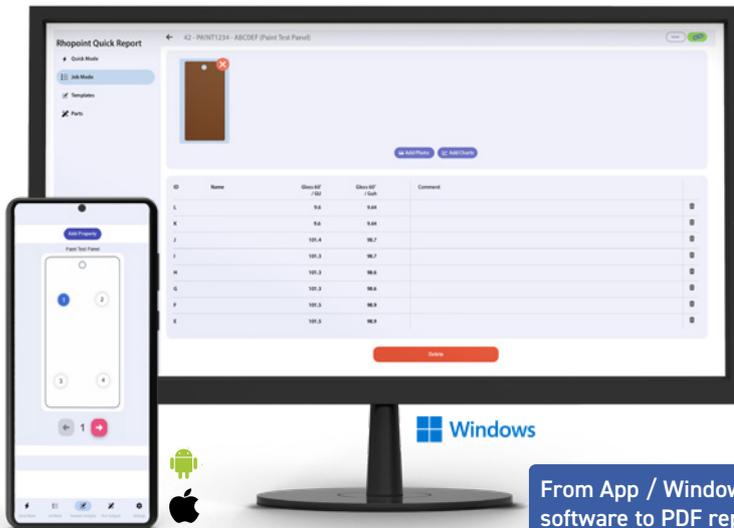


Measures small parts



# 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 Flex 60.



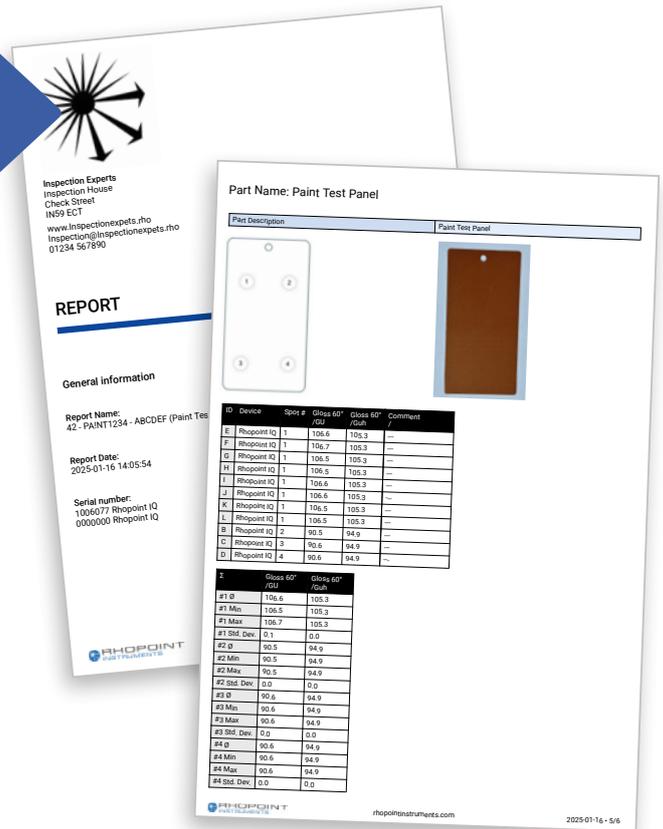
Values for all measured parameters given per measurement spot

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.



↓ [app.rhopointinstruments.com](http://app.rhopointinstruments.com)

# Specifications

<b>Operation</b>	Full colour easy to read screen Adjustable brightness 6 button touch sensitive interface with measurement
<b>Construction</b>	Integrated calibration holders for error free calibration
<b>Measurement</b>	Fast measurement Results batching with user definable names
<b>Graphical Analysis</b>	On board trend analysis
<b>Statistical Analysis</b>	Max, min, mean, S.D.
<b>Power</b>	Rechargeable lithium ion - 14,000 readings per charge
<b>Memory</b>	8MB = 2950 readings

Measurement Area	
<b>60°</b>	6mm x 12mm
<b>Operating Temperature</b>	15 - 40° C (60 - 104° F)
<b>Humidity</b>	Up to 85%, non condensing

Dimensions & Weights	
<b>Instrument</b>	80 (H) x 150 (W) x 35mm (D), 392g
<b>Measurement head</b>	60 (H) x 110 (W) x 28mm (D), 109g
<b>Packed weight</b>	1.6kg
<b>Packed dimensions</b>	110mm (H) x 280mm (W) x 220mm (D)
<b>Commodity code</b>	9027 5000

	GU	GUh
<b>Measurement range</b>	0-125 GU	0 -125 GUh (0-12.5 GU)
<b>Resolution</b>	0.1 GU	0.1 GUh (0.01 GU)
<b>Repeatability</b>	±0.2 GU	±0.5 GUh (0.05 GU)
<b>Reproducibility</b>	±0.5 GU	±2.0 GUh (0.2 GU)
<b>Standards</b>	ISO 2813, ASTM D523, ASTM D2457, DIN 67530, JIS Z 8741, JIS K 5600-4-7	

**60°:** Universal angle – all gloss levels

**GUh:** Improved resolution for low gloss finishes

**Free extended 2 year warranty:** Requires registration at [www.rhoppointinstruments.com](http://www.rhoppointinstruments.com) within 28 days of purchase. Without registration, 1 year standard warranty applies.

**Free light source warranty:** Guaranteed for the life of the instrument.

**Calibration and service:** Fast and economical service via our global network of accredited calibration and service centres. Please visit [www.rhoppointinstruments.com](http://www.rhoppointinstruments.com) for detailed information.

Languages:





**TRY BEFORE YOU BUY**

## We offer two options for you to try out the Novo-Gloss Flex 60 before buying.

- 1 Online demonstration:** Online presentation of the Novo-Gloss Flex 60 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.

[Arrange a demo](#)

**Ready to receive a quote?**

[Click here](#)

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