KONICA MINOLTA

Rhopoint Novo-Gloss Flex 60

- Measures small footprint areas
- Measures curved and hard to reach surfaces
- On board statistics, Bluetooth® and USB data transfer
- Enhanced accuracy measurement of low gloss finishes

RHOPOINT INSTRUMENTS

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.

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.

Improved performance in low gloss applications

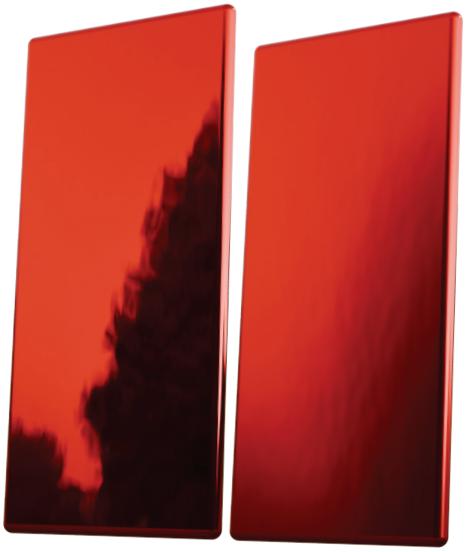
Why measure gloss?

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.

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.



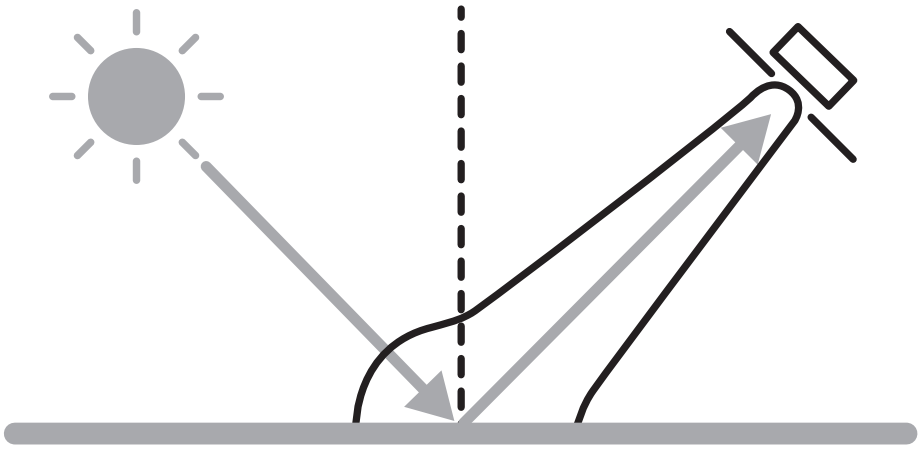
It is important therefore that gloss levels are achieved consistently on every product or across different batches of products.

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.

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 surface and also aspect of the surface appearance to be measured.



The unit of measurement for gloss is the Gloss Unit (GU) and the measurement scale at 60 degrees is 0-1000GU where 0 = a completely matt surface and 1000 = a perfect mirror.

The Novo-Gloss Flex 60 has a measurement range of 0 - 125 GU and can measure anything from matt surfaces to high gloss finishes typically seen in the automotive industry.

The additional measuring range of GUh provides a x10 resolution when measuring very low gloss surfaces of 0 - 12 GU.

Matt finish

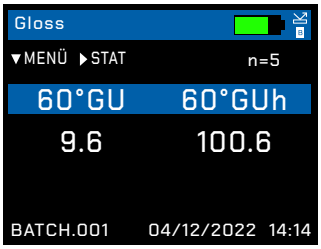
High gloss finish

For measurement of gloss, haze and DOI (Distinctness of image) of mid to high gloss surfaces at 20˚, please refer to the Rhopoint IQ Flex 20.

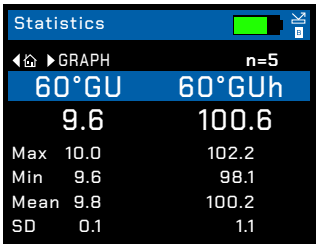
Features

Measurement

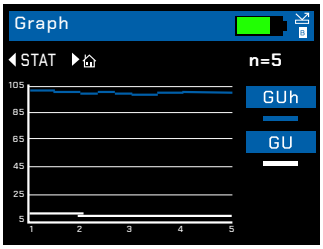
Fast measurement of all parameters. Full on-board statistics with graphical trend analysis and reporting.



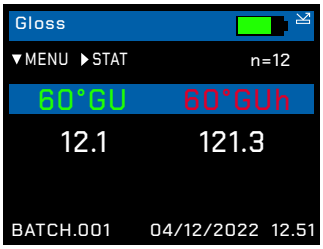
Simultaneous measurement of all parameters, results are date and time stamped.



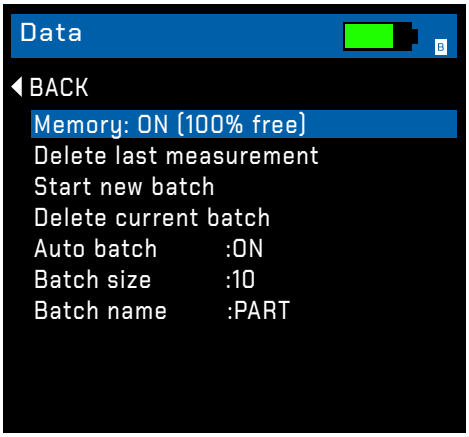
Displays full statistics for the number of readings in the current batch.



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

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

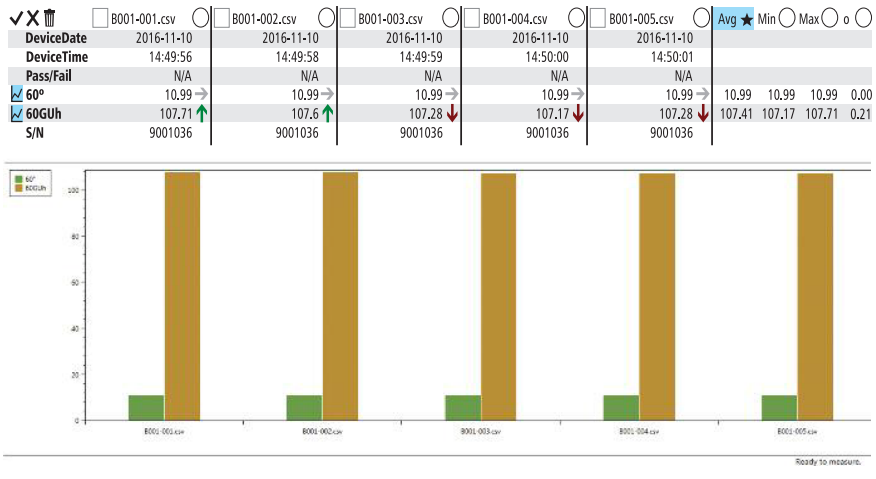
Software-free data transfer.

Direct data input via BT wireless

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

Novo-Gloss multi gauge software

Analyse and compare individual measurements made with the instrument.



Operation

Instrument calibration
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.

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

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

Measurement head
The instrument is supplied with interchangeable measurement adaptors.

1. Standard adaptor

2. Steel surface adaptor (magnetic) for increased repeatibility for ferrous materials.

Both adaptors can be replaced if they are damaged.

The measuring head is ultra lightweight with integrated measurement buttons for single handed operation.

Sample Applications


Furniture


Measurement of curved matt surface


Automotive interior trim


Plastics industry


Curved plastic parts

Specifications

Specifications		
Measuring angle	60°: universal angle for almost all gloss levels	
Measurement area	6 mm x 12 mm	
	GU scale	GUh scale (improved resolution for low gloss)
Measurement range	0 - 125 GU	0 - 125 GUh (0 - 12.5 GU)
Repeatability	±0.2 GU	±0.5 GUh (0.05 GU)
Reproducibility	±0.5 GU	±2.0 GUh (0.2G U)
Resolution	0.1 GU	0.1 GUh (0.01GU)
Standards:	ISO 2813, ISO 7668, ASTM D523, ASTM D2457, DIN 67530, JIS 8741, JIS K 5600-4-7	
Other instrument specifications		
Colour screen	Screen high resolution illuminated colour display; brightness adjustable	
Statistical analysis	Max, Min, Mean, S.D.	
Graphical analysis	On board trend analysis	
Power	Rechargeable Lithium Ion; >17 Hours operation; >14,000 Readings/Charge	
Data memory	8 MB > 999 Readings; user definable batching	
Data transfer	Bluetooth®; PC & MAC® compatible; USB Connection	
Dimensions & weight	Instrument: 80 x 150 x 35 mm (H x W x D); 392 g Head: 60 x 110 x 28 mm (H x W x D); 109 g	

Included accessories

- Certified high and low gloss calibration tiles with certificates
- Standard and steel surface measuring head adaptors
- USB data cable
- Wrist strap
- USB/mains charger
- Cleaning cloth
- USB memory stick containing:
  - Novo-Gloss Multigauge software
  - Instruction manual
  - Bluetooth® data app
  - Example Excel® spreadsheets
  - Instrument calibration certificate

Supported languages in the device

Konica Minolta Sensing Europe B.V. is an authorized distributor of Rhopoint Instruments Ltd.

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Registration Date : October 26, 2018
KONICA MINOLTA, Inc., Sakai Site
Product design, manufacture/manufacturing management, calibration and service

Certificate No: JQA-E-80027
Registration Date: March 12, 1997
KONICA MINOLTA, Inc., Sakai Site

Addresses and telephone numbers are subject to change without notice.
For the latest contact information, please refer to the KONICA MINOLTA Worldwide Offices web page: **www.konicaminolta.com/instruments/network**

www.konicaminolta.eu

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