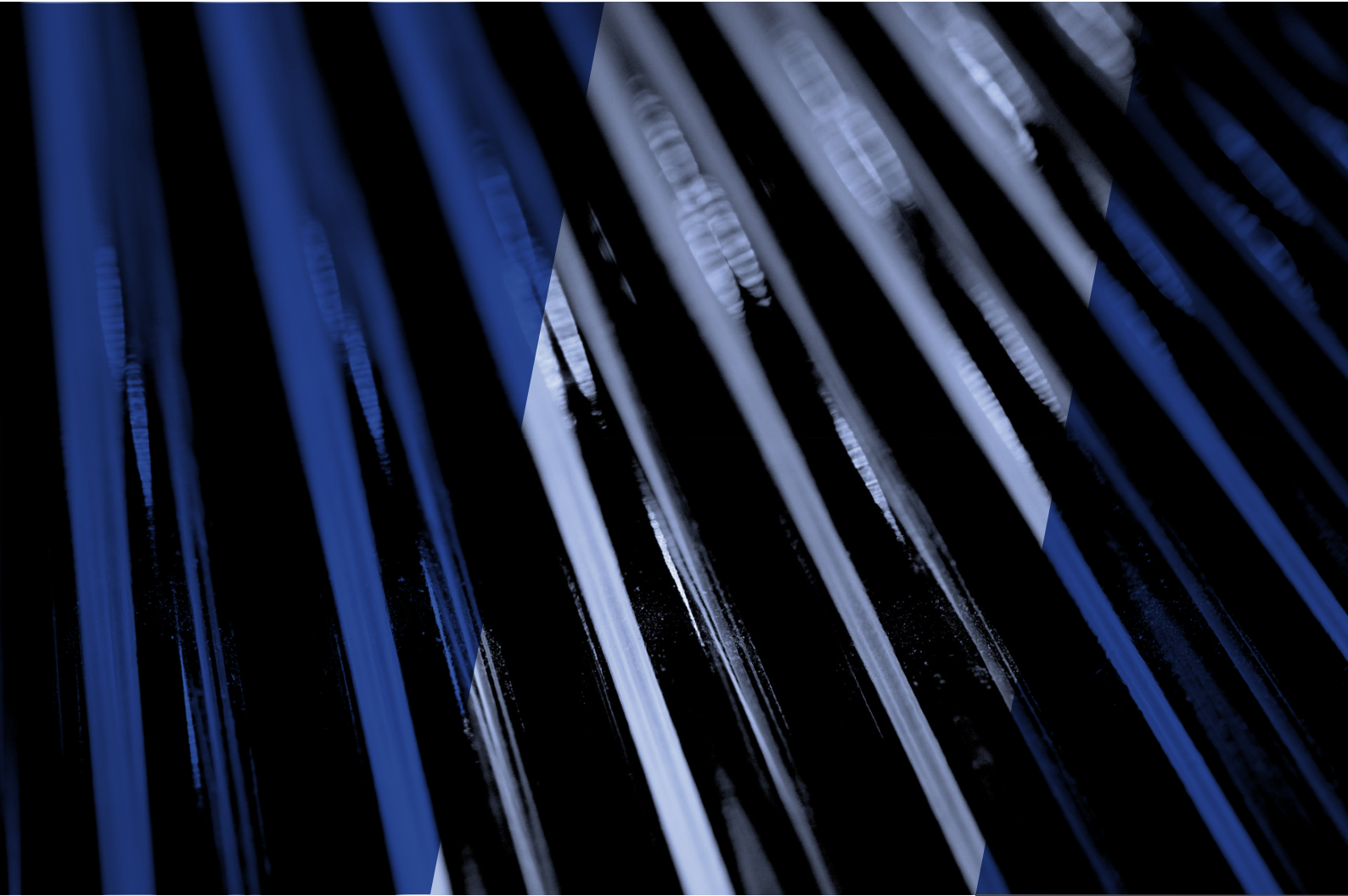




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NOVO-CURVE™ 

Novo-Curve 4 Glossmeter

- Curved & flat surfaces
- Small areas
- Irregular shapes

Manufactured by Rhpoint Instruments in the United Kingdom



Pictured sample not included. Jigging posts available to purchase separately.

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.

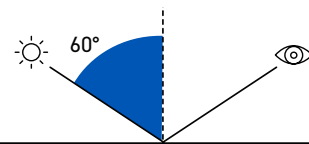
Gloss has been defined as 'The attribute of surfaces that causes them to have shiny or lustrous, metallic appearance.'

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.



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.



Universal Measurement Angle: 60°

All gloss levels can be measured using the standard measurement angle of 60°. 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.

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

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



The Novo-Curve 4 Glossmeter



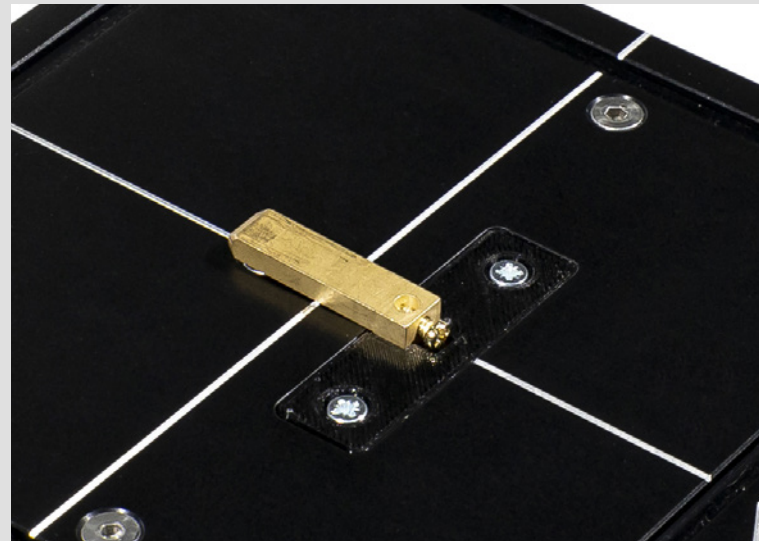
Manufactured by Rhopoint since 1997, the Novo-Curve is the industry standard instrument for measuring the gloss of curved and small parts which cannot be measured with standard hand held units

The Novo-Curve 4 is a unique instrument with specially designed optics for accurately measuring the gloss at 60° of curved surfaces and small areas. Multiple options exist to increase the repeatability of gloss measurement of irregular sample shape. Moveable jiggling posts ensure cylindrical objects can be positioned correctly and measured in the same place each time.

Benefits of using the Novo-Curve 4

- ✓ Measures small, curved or irregular surfaces
- ✓ Simple jiggling system
- ✓ 2mm x 2mm measurement spot
- ✓ Hands free operation, easy sample manipulation
- ✓ Full statistical analysis
- ✓ Constant read feature
- ✓ Direct transfer of reading to PC

For an exact fit for small complex shapes, a custom cutout enables the sample to be measured in exactly the same spot each time.



Other options for gloss measurement of small and curved parts

Novo-Gloss Flex 60



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.

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.

With the ability to measure the the gloss of surfaces that cannot be accessed 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.

Measured parameters:

- 60° Gloss GU
- 60° Gloss GUh

Rhopoint IQ Flex 20



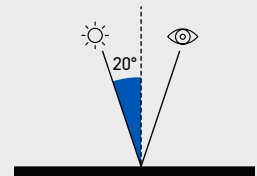
The Rhopoint IQ Flex 20 quantifies surface quality problems such as orange peel and haze that are invisible to a standard glossmeter. It profiles how light is reflected from a surface.

This handheld instrument has been specifically designed for the measurement of high gloss curved surfaces, as well as small and delicate parts.

Flex 20 gloss measurements are fully compatible with existing Rhopoint IQ results.

Measured parameters:

- 20° Gloss
- Reflectance haze
- Reflected Image Quality (RIQ)
- Distinctness of Image (DOI)
- Goniophotometric curves
- RSPEC (peak specular reflectance)



How to choose the correct product for my application



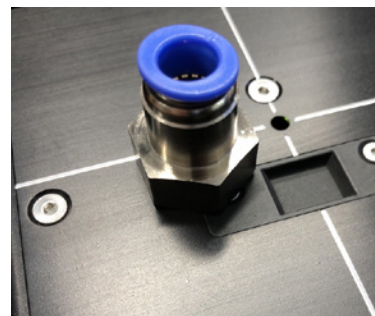
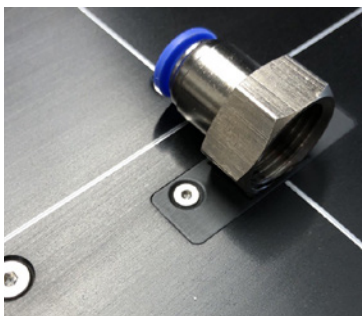
	Novo-Curve 4	Novo-Gloss Flex 60	Rhopoint IQ Flex 20
Measures curved surfaces	✓	✓	✓
Measures small surfaces	✓	✓	✓
Measures hard-to-reach surfaces		✓	✓
Designed for very low gloss finishes		✓	
Designed for very high gloss finishes			✓
Suitable for mirror finishes	✓		✓
Custom adaptor jigs available	✓	✓	✓
Benchtop instrument	✓		
Handheld instrument		✓	✓
Measures DOI (orange peel) and haze			✓

Measurement advice and custom design service

Custom Small Part Adaptor System

The New Novo-Curve 4 includes an indented platen to accept complex parts which could not be measured on the previous instrument.

The indented platen also accepts 3D printed jigs to allow accurate placement of small switches, decals or irregular shapes.



Contact our experienced applications team who can advise on the best way to measure small parts curved surfaces or difficult to measure areas- we also design and supply 3D printed adaptors and jigs bespoke for many applications.

Features



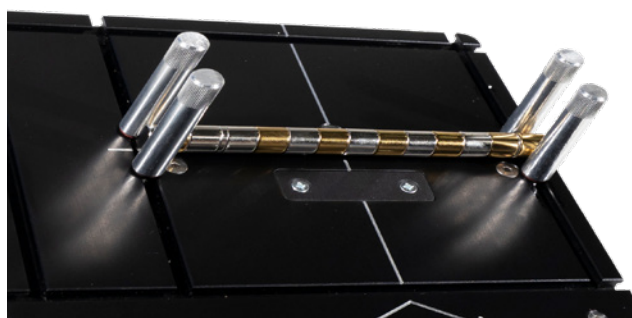
Simple checking of curved surfaces

For curved surfaces, the correct gloss value is the peak value identified on the sample. Continuous read mode on the Novo-Curve 4 greatly simplifies this process.



Certainty of measurement

For improved gloss control, calibrate on a standard that matches closest to your sample. Additional standards are available from matt to mirror finish.



Repeatable sample positioning

Bespoke sample securing systems allow multiple samples to be measured in exactly the same place*.

*Requires additional accessory



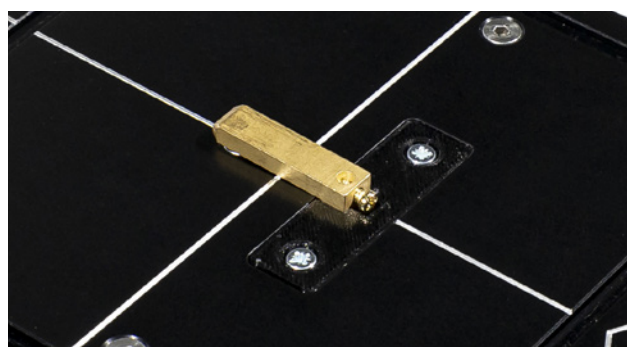
Hands free sample measurement

The optional footswitch enables the user to easily manipulate the sample for measurement.



Measurement of small samples

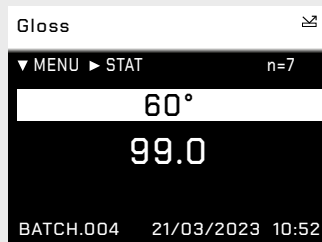
Measure samples too small to be measured with a standard glossmeter.



Custom Part Adaptors

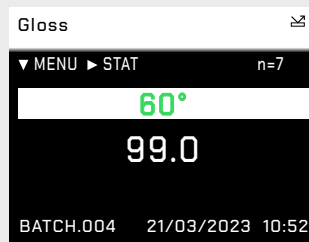
For an exact fit for small complex shapes, a custom cutout enables the sample to be measured in exactly the same spot each time.

Measurement Function



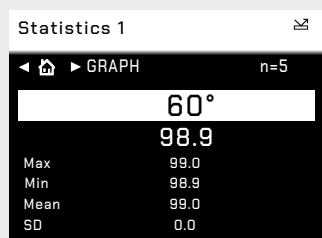
Measurement

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



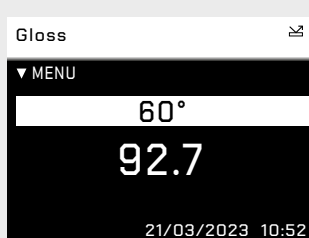
Parameters

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



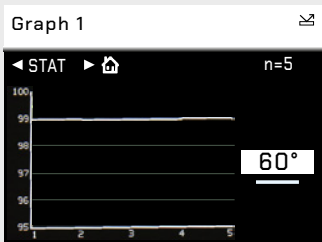
Statistics

Displays full statistics for the readings in the current batch.



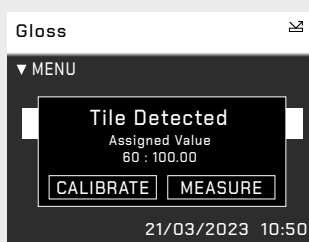
Automatic Measurement

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



Graph

Graph reporting for quick trend analysis.



Automatic Tile Detection

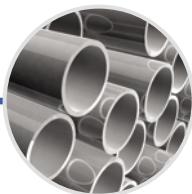
For faster calibration, the instrument automatically detects when the calibration standard is attached to the instrument.



Applications

Plastic parts

From small items such as mobile phone buttons to large extruded pipes



Automotive

Switches and buttons, chromed exhausts, curved body and interior parts



Furniture

Wood, plastic and metal



Ceramics

Porcelain, tiles and glazed crockery



Electroplating

Chromed pipes, jewellery, handles, surgical instruments and prosthetics



Coins

Polished metals



Banknotes

Holograms and watermarks



Dental research

Tooth samples and prosthetics

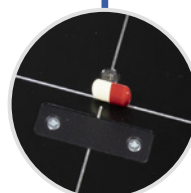


All paints & coatings



Medical

Tablets, surgical instruments and prosthetics



Confectionery

Chocolates and sweets



Food products

Fruit, vegetables and nuts



Specifications

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 Spot	2.0 x 2.0 (mm)		
Standards	ISO 2813 ASTM D523		

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

Instrument Specifications	Details
Power	110 –120V AC or 220 –240V AC to power external 9V DC power pack
Measurement Aperture	4.5mm Ø
Operation	Full colour easy to read screen Adjustable brightness 5 button touch sensitive interface, measurement button or optional footswitch
Construction	Integrated calibration holders for error free calibration
Measurement	Fast measurement Results batching with user definable names
Graphical Analysis	On board trend analysis
Statistical Analysis	Max, min, mean, S.D.
Data Transfer	Fast, direct data transfer to Excel via USB keyboard emulation
Memory	8MB, 2,000 readings
Operating Temperature	15-40°C (60-104°F)
Operating Humidity	Up to 85%, non condensing

Dimensions and Weights	Details
Dimensions	70mm x 190mm x 230mm (H x W x D)
Weight	2.2kg
Packed weight	3.4kg
Packed dimensions	110mm x 280mm x 220mm (H x W x D)
Languages	
Commodity code	9027 5000

Order Codes	Details
Novo-Curve 4 Glossmeter	A1277-600
4x Jigging posts	B1277-602
Mirror gloss calibration standard	B6000-101

Included Accessories:

- ISO17025 certified calibration standard in protective case
- Power supply unit
- USB data cable
- Tile cleaning cloth

Optional Accessories:

- 4 x jigging posts
- Replacement calibration tile
- Supplementary calibration/checking standards
- Novo-Curve cylinder measurement jig
- Custom fixture jigs
- Footswitch

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.



TRY BEFORE YOU BUY

We offer three options for you to try out the Novo-Curve 4 before buying

- 1 Online demonstration:** Online presentation of the Novo-Curve 4 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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