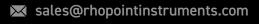








www.rhopointinstruments.com





Manufactured by Rhopoint Instruments in the United Kingdom





Rhopoint IQ

- 20/60/85° Glossmeter
- DOI meter
- Haze meter
- Goniophotometer







The Rhopoint IQ

The Rhopoint IQ Gloss, Haze & DOI Meter quantifies surface quality problems that are invisible to a standard glossmeter and profiles how light is reflected from a surface.

The Rhopoint IQ can measure:

- · 20/60/85° Gloss
- RSPEC
- · Reflectance haze
- Reflected image quality (RIQ)
- Distinctness of Image (DOI)
- Goniophotometric curves

Glossmeters are usually used to measure the "shininess" of a surface but are not sensitive to common effects which reduce appearance quality.

 $\ensuremath{\mathsf{IQ}}$ GLOSS measurements are fully compatible with existing Novo-Gloss and Micro-TRI-gloss results.

Dualgloss $20/60^{\circ}$ or Trigloss $20/60/85^{\circ}$ versions are for maximum accuracy and resolution in all gloss applications.

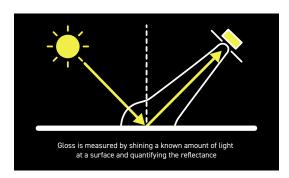








What does the Rhopoint IQ measure?



1. Gloss

A measurement proportional to the amount of light reflected from a surface.

Geometry: The correct measurement geometry should be used according to the sample finish – matt: 85°, mid gloss: 60°, high gloss: 20°



2. RSPEC

The peak gloss measured over a very narrow angle.

Usage: It is very sensitive to surface texture and can be used to identify subtle differences in smooth surfaces.



3. Distinctness of Image (DOI)

A measure of how clearly a reflected image will appear in a reflective surface.

Orange peel dramatically reduces appearance quality without affecting gloss readings. These two test panels measure identically with a standard glossmeter. The Rhopoint IQ with RIQ/DOI measurement can quantify the differences.







4. Reflected Image Quality (RIQ)

RIQ is used to quantify effects such as orange peel and surface waviness. This new parameter gives higher resolution results compared to Distinctness of Image (DOI) measurement and better mimics human perception of surface texture, especially on high quality finishes such as automotive.

Symptoms of poor RIQ: Orange peel, brush marks, waviness or other structures visible on the surface. Reflected images are distorted.

Causes: Application problems, incorrect coating flow, coating viscosity too high/low, sag or flow of coating before curing, incorrect particle size/distribution, overspray, improper flash/recoat time, inter-coat compatibility, incorrect cure times and cure temperature.





5. Reflectance Haze

An optical effect caused by microscopic texture or residue on a surface.

Visible symptoms: A milky finish is apparent on the surface with a loss of reflected contrast. Halos and patterns can be seen around reflections of high intensity light sources.

Causes: Poor dispersion, raw material incompatibility, additive migration, vehicle quality, stoving/drying/curing conditions, polishing marks, fine scratches, ageing, oxidisation, poor cleanliness/surface residue.

Haze is a common problem associated with coatings and polished materials. Surfaces with haze have a milky finish with a shallow reflected image. This important characteristic is directly measured with the Rhopoint IQs.

On surfaces with haze, halos are visible around the reflections of strong light sources



Low Haze



Higher Haze

Reflectance haze compensation

The instrument compensates for reflection from within the coating for highly reflective pigments, metallic coatings and speciality pigments, allowing the haze of any painted surface to be measured.





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 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.

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.



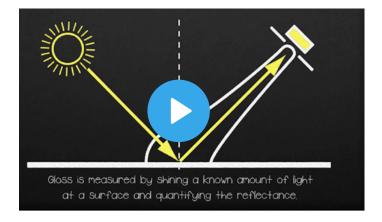
It is for these reasons that many manufacturing industries monitor the gloss of their products, from cars, printing and furniture to food, pharmaceuticals and consumer electronics.





How is gloss measured?

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

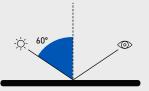


The angle of the light and the method by which the reflectance is measured are determined by the surface material and which aspect of the surface appearance is to be measured.

Which angle should I use for my application?

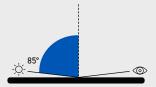
ISO 2813 and ASTM D523 (the most commonly used standards) describe three measurement angles to measure gloss across all surfaces.

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



Universal Measurement Angle: 60°

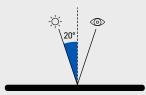
All gloss levels can be measured using the standard measurement angle of 60°. This is used as the reference angle with the complimentary angles of 85° and 20° often used for low and high gloss levels respectively.



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.







Why measure haze?

Haze can be described as *near specular* reflection. It is caused by a microscopic surface structure which slightly changes the direction of a reflected light causing a bloom adjacent to the specular (gloss) angle. The surface has less reflective contrast and a shallow milky effect.

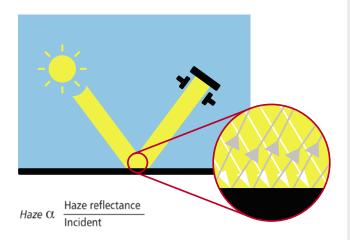


In the coatings industry, this microscopic surface texture is often due to poorly dispersed raw materials, incompatible raw materials or oxidisation and weathering. For polished metal surfaces, haze is often associated with polishing marks or chemical residue.

Haze

Haze is light that has been reflected by small surface structures adjacent to the main specular component.

Reflectance haze – An optical effect caused by microscopic texture or residue on a surface.



Reflection haze

Reflection haze is an optical phenomenon usually associated with high gloss surfaces.

It is a common surface fault that reduces appearance quality. A hazy surface has a visibly shallower reflection with a milky finish and halos appear around reflections of strong light sources.



Sample 1 No Haze, deep reflection



Sample 2 High Haze, 'shallow' finish

A high gloss finish with haze exhibits a milky finish with low reflective contrast, reflected highlights and lowlights are less pronounced.





Sample 3 Low Haze



Sample 4 Higher Haze

On surfaces with haze, halos are visible around the reflections of strong light sources.







Causes of Haze

Coating & Raw Materials

- Dispersion
- · Pigment properties
- · Particle size
- Binder compatibility
- Influence and migration of additives
- · Resin types and quality

Curina

- · Drying conditions
- · Cure temperature

Post Coating

- Polishing marks
- · Cleanliness
- · Ageing and oxidisation



Haze: Often visible as milky finish on high gloss surfaces

Gloss and haze measurement with array technology

The Rhopoint IQ uses a 512 element linear diode array which profiles reflected light in a large arc from 14° to 27°. The instrument processes this high resolution data, selecting individual elements within the array that equate to the angular tolerances outlined in international measurement standards.

In a single 20° measurement, the following calculations are made:

Gloss= $\frac{\sum \text{Pixels between 20° ± 0.9° (sample)}}{\sum \text{Pixels between 20° ± 0.9° (sample)}}$

∑ Pixels between 20° ± 0.9° (standard)

 Σ Pixels from 17° to 19° (sample) + Σ Pixels from 21° to 23° (sample)

Haze=100x

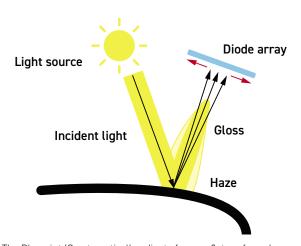
Specular Gloss (standard)

logHaze= 1285 (log10((Haze/20)+1))

Curved surface adjustment

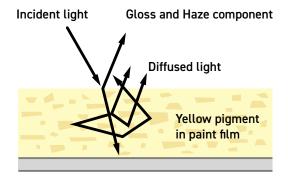
A major advantage of the Rhopoint IQ is that it automatically compensates for curved or textured sample surfaces by virtually adjusting the measurement position. Conventional gloss-hazemeters have fixed optics which can make measurement unreliable as any sample curvature will reflect light away from the centre of the measurement sensor causing errors.

The Rhopoint IQ automatically adjusts the sensor position by detecting the peak of the reflected light. The laws of reflection state that the incident angle is equal to the reflection angle thus the peak equates exactly to the 20° gloss angle.



The Rhopoint IQ automatically adjusts for non-flat surfaces by sensing the reflected peak and virtually adjusting the position of the sensor.





The Rhopoint IQ compensates for reflection from within the coating for highly reflective pigments, metallic coatings and speciality pigments, allowing the haze of any painted surface to be measured.

Diffuse corrected measurement with array technology*

Reflection haze is caused by micro texture on a surface which causes a small amount of light to be reflected adjacent to the gloss angle.

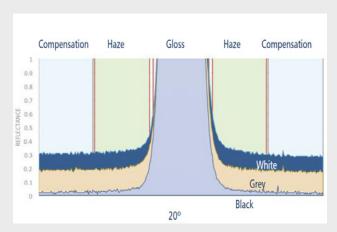
For white surfaces, bright colours and metallics, a certain amount of diffuse light, reflected from within the material, is also present in this region.

This diffuse light exaggerates the haze signal for these surfaces causing higher than expected readings.

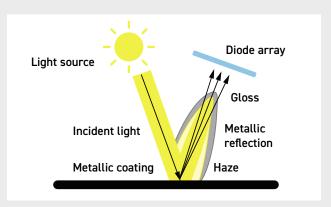
 $\mbox{*}$ Only enabled when the instruments is set to haze measuring mode of ASTM E430

Corrected haze measurement on metallic coatings

For non metallic surfaces, the diffuse component is Lambertian: it is equal in amplitude at all angles in relation to the sample surface. Conventional gloss-hazemeters measure diffuse reflection using a luminosity sensor positioned away from the gloss angle. Luminosity is subtracted from the haze signal allowing non metallic surfaces to be measured independently of their colour.



Goniophotometric information profiling the reflection from white, grey and black panels with an identical topcoat.



The Rhopoint IQ captures compensation information from a region adjacent to the haze measurement angle. This means it can be used on metallic coatings which reflect light.



An advantage of the Rhopoint IQ is that unlike a conventional instrument, compensation is calculated using a region adjacent to the haze angle. This technique gives compatible readings on solid colours but also compensates for directional reflection from metallic coatings and speciality pigments.





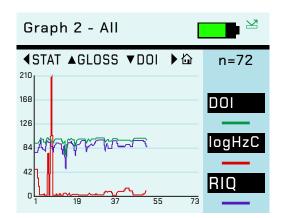


Features

| Trigloss + I | Q | 2 |
|--------------|-----------|-----------|
| ▼MENU ▲CUF | RVE START | n=72 |
| 20° | 60° | 85° |
| 87.9 | 94.0 | 99.7 |
| DOI | logHzC | RIQ |
| 96.5 | 6.3 | 85.6 |
| BATCH001 | 18/07/2 | 2020 2:27 |

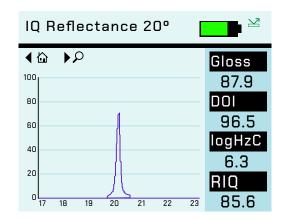
Measurement

Simultaneous measurement of all parameters, date and time stamped.



Graphs

Graphical reporting for quick trend analysis.



Goniophotometric Curves

Different types of surface textures produce identifiably shaped reflectance profiles. This goniophotometric data can be downloaded to PC for further analysis and comparison via the USB cable or BT data widget.

| Statis | stics 1 | | 2 |
|---------------|---------|-------|----------|
| ♦ ₩ ▼9 | RAPH | n=72 | |
| | 20° | 60° | 85° |
| | 87.9 | 94.0 | 99.7 |
| Max | 106.0 | 111.2 | 100.6 |
| Min | 44.1 | 54.1 | 38.5 |
| Mean | 85.5 | 92.9 | 94.8 |
| SD | 11.5 | 6.5 | 12.3 |

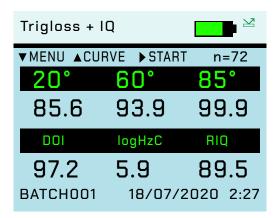
Statistics

Displays full statistics for the readings in the current batch.

| Stored Data | \preceq | |
|------------------------|-----------|-----------|
| ♦ ▶ ▼ BA | TCH ▲ ● 🟠 | Mean |
| 20° | 60° | 85° |
| 74.5 | 88.3 | 99.3 |
| RIQ | Hz (E) | Rspec |
| 96.0 | 1.6 | 72.6 |
| BATCH001 | 18/07/2 | 2020 2:27 |

Stored data

View and inspect data saved on the instrument.



Parameters

Pass / fail parameters can be defined for instant identification of nonconformances.





Data Transfer Options

Software-free data transfer

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

| Batch | BatTime | Date | Time | Pass | GLOSS | GLOSS | GLOSS | HAZE | LOG | DOI | RSPEC | Cdiode | CALIBRATED | CERTIFIED | SERIAL | RIQ | PCB. | Env. |
|-------|----------|----------|----------|--------|--------|-------|-------|------|------|-------|-------|--------|------------|-----------|---------|--------|-------|-------|
| | | | | / Fail | 20 | 60 | 85 | | HAZE | | | | | | NO | | temp | temp. |
| | | | | | | | | | | | | | | | | | | deg C |
| | | 02/07/19 | | | 100.35 | 99.6 | 99.5 | 0 | 0.34 | | 97.17 | 230 | 02/07/19 | 02/07/19 | | 96.62 | 26.83 | 26.56 |
| 001 | 10:50:30 | 02/07/19 | 10:50:32 | N/A | 100.43 | 99.63 | 99.5 | 0 | 0 | | 97.16 | 230 | 02/07/19 | 02/07/19 | | | 26.64 | 26.56 |
| 001 | 10:50:30 | 02/07/19 | 10:50:34 | N/A | 100.43 | 99.57 | 99.43 | 0.01 | 0.17 | 99.08 | 97.09 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.62 | 26.64 | 26.62 |
| 001 | 10:50:30 | 02/07/19 | 10:50:36 | N/A | 100.47 | 99.63 | 99.4 | 0 | 0 | 99.08 | 97.08 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.64 | 26.83 | 26.69 |
| 001 | 10:50:30 | 02/07/19 | 10:50:38 | N/A | 100.52 | 99.6 | 99.45 | 0 | 0 | 99.08 | 97.06 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.65 | 27.01 | 26.69 |
| 001 | 10:50:30 | 02/07/19 | 10:50:40 | N/A | 100.51 | 99.6 | 99.43 | 0.01 | 0 | 99.08 | 97.16 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.63 | 26.83 | 26.75 |
| 001 | 10:50:30 | 02/07/19 | 10:50:42 | N/A | 100.47 | 99.6 | 99.43 | 0 | 0.01 | 99.08 | 97.14 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.62 | 26.83 | 26.76 |
| 001 | 10:50:30 | 02/07/19 | 10:50:44 | N/A | 100.54 | 99.6 | 99.47 | 0 | 0 | 99.09 | 97.18 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.65 | 26.83 | 26.75 |
| 001 | 10:50:30 | 02/07/19 | 10:50:46 | N/A | 100.47 | 99.57 | 99.34 | 0 | 0 | 99.08 | 97.18 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.63 | 27.01 | 26.81 |
| 001 | 10:50:30 | 02/07/19 | 10:50:48 | N/A | 100.54 | 99.6 | 99.4 | 0 | 0 | 99.09 | 97.19 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.64 | 26.73 | 26.81 |
| 002 | 10:54:33 | 02/07/19 | 10:54:33 | N/A | 100.47 | 99.6 | 99.4 | 0 | 0 | 99.08 | 97.15 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.68 | 27.01 | 26.81 |
| 002 | 10:54:33 | 02/07/19 | 10:54:35 | N/A | 100.39 | 99.6 | 99.43 | 0.01 | 0.26 | 99.08 | 97.14 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.68 | 27.01 | 26.88 |
| 002 | 10:54:33 | 02/07/19 | 10:54:37 | N/A | 100.5 | 99.6 | 99.4 | 0 | 0 | 99.07 | 97.16 | 230 | 02/07/19 | 02/07/19 | 1181180 | 996.67 | 27.01 | 26.94 |
| 002 | 10:54:33 | 02/07/19 | 10:54:39 | N/A | 100.6 | 99.57 | 99.4 | 0 | 0 | 99.06 | 97.16 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.68 | 27.01 | 26.04 |
| 002 | 10:54:33 | 02/07/19 | 10:54:41 | N/A | 100.52 | 99.58 | 99.4 | 0 | 0 | 99.07 | 97.19 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.68 | 27.01 | 26.94 |
| 002 | 10:54:33 | 02/07/19 | 10:54:43 | N/A | 100.57 | 99.5 | 99.45 | 0 | 0 | 99.09 | 97.18 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.63 | 27.01 | 27 |
| 002 | 10:54:33 | 02/07/19 | 10:54:45 | N/A | 100.55 | 99.48 | 99.47 | 0 | 0 | 99.08 | 97.18 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.63 | 27.19 | 27 |
| 002 | 10:54:33 | 02/07/19 | 10:54:47 | N/A | 100.61 | 99.14 | 99.4 | 0 | 0 | 99.08 | 97.18 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.62 | 27.19 | 27 |
| 002 | 10:54:33 | 02/07/19 | 10:54:49 | N/A | 100.5 | 99.5 | 99.47 | 0.01 | 0.28 | 99.09 | 97.15 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.64 | 27.19 | 27 |
| 002 | 10:54:33 | 02/07/19 | 10:54:51 | N/A | 100.21 | 99.6 | 99.4 | 0.01 | 0.17 | 99.07 | 97.18 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.64 | 27.01 | 27.06 |
| 002 | 10:54:33 | 02/07/19 | 10:54:53 | N/A | 100.87 | 99.61 | 99.44 | 0 | 0 | 99.12 | 97.20 | 230 | 02/07/19 | 02/07/19 | 1181180 | 96.66 | 27.19 | 27.06 |

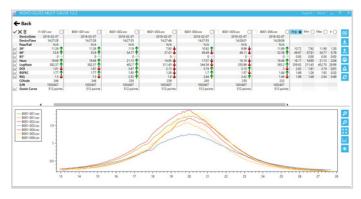
Direct data input via BT wireless

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

| | 1 | 2 | 3 | 4 | 5 | 6 |
|------------|----------|----------|-----------|----------|----------|----------|
| DATE | 02/07/19 | 02/07/19 | 02/07/19 | 02/07/19 | 02/07/19 | 02/07/19 |
| TIME | 11:16:24 | 11:16:42 | 11:17:17 | 11:17:37 | 11:17:58 | 11:18:29 |
| 20 | 10.4 | 10.4 | 10.6 | 10.6 | 10.6 | 10.6 |
| 60 | 40.6 | 40.6 | 40.3 | 40.4 | 40.3 | 40.3 |
| LogHAZE | 222.2 | 221.9 | 225.5 | 225.7 | 225.5 | 225.5 |
| DOI | 10.4 | 10.4 | 9.7 | 9.7 | 9.7 | 9.8 |
| RIQ | 6.6 | 6.5 | 5 7.1 7.0 | | 7.2 | 7.2 |
| Cdiode | 227 | 227 | 223 | 223 | 223 | 223 |
| Calibrated | 02/07/19 | 02/07/19 | 02/07/19 | 02/07/19 | 02/07/19 | 02/07/19 |
| Serviced | 02/07/19 | 02/07/19 | 02/07/19 | 02/07/19 | 02/07/19 | 02/07/19 |
| S/N | 1181180 | 1181180 | 1181180 | 1181180 | 1181180 | 1181180 |

Statistical analysis via Novo-Gloss Multi Gauge software

The included 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.









Applications

The DOI, Haze and RSPEC values measured by the Rhopoint IQ allow the user to quantify and control the surface textures that reduce the perceived quality of manufactured products.

The meter is widely used throughout many industries to assess the reflective qualities of products, in particular automotive exteriors and interiors.



Automotive



Printed Cartons



Printing Ink



Powder Coating



Automotive Re-finish



Yacht Manufacturers



Paints and Coatings



Smart Devices, PC & Laptop Covers



Furniture



Aerospace



Plastics Industry



Wood Coatings



Metal Polishers



Polished Stone









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 | 4 (mm) |
| Standards | ISO 2813 ASTM ASTM D2457 DIN | D523 ISO 7668 67530 JIS Z 8741 |

Recommended product

- Rhopoint IQ 20/60/85
- Rhopoint IQ 20/60

| | 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 281 | 3 ASTM D523 I | SO 7668 |
| Stanualus | ASTM D24 | 457 DIN 67530 L | JIS Z 8741 |

Recommended product

- Rhopoint IQ 20/60/85
- Rhopoint IQ 20/60

| | 85° Gloss | | |
|------------------|-----------------------------------|-----------------------------------|--|
| Range (GU) | 0-100 | 100-199 | |
| Repeatability | 0.2 (GU) | 0.2 % | |
| Resolution (GU) | tion (GU) 0.1 | | |
| Measurement Area | 4.4 x 44. | 0 (mm) | |
| Standards | ISO 2813 ASTM ASTM D2457 DIN 6 | D523 ISO 7668 67530 JIS Z 8741 | |

Recommended product

Rhopoint IQ 20/60/85

| H | łaze | | |
|--------------------------|--------------------------------|--|--|
| Range (Log HU) 0-500 | | | |
| Repeatability (Log HU) | 1 | | |
| Reproducibility (Log HU) | 10 | | |
| Resolution | 0.1 | | |
| Measurement Area | 6.0 x 6.4 (mm) | | |
| Standards | ASTM E430 ASTM D4039 ISO 13803 | | |

| Recommended product | |
|---------------------|--|
| | |

- Rhopoint IQ 20/60/85
- Rhopoint IQ 20/60

| | RSPEC | DOI | RIQ |
|--------------------------|----------------|----------------|----------------|
| Range (GU) | 0-2000 GU | 0-100 | 0-100 |
| Repeatability (Log HU) | 0.2% | 0.2 | 0.2 |
| Reproducibility (Log HU) | 0.5% | 0.5 | 0.5 |
| Resolution | 0.1 | 0.1 | 0.1 |
| Measurement Area | 6.0 x 6.4 (mm) | 6.0 x 6.4 (mm) | 6.0 x 6.4 (mm) |
| Standards | Rhopoint | ASTM E430 | Rhopoint |

Recommended product

- Rhopoint IQ 20/60/85
- Rhopoint IQ 20/60





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 | 140mm x 50mm x 65mm (L x W x D) | |
| Weight | 390g | |
| Packed weight | 1.75 kg | |
| Packed dimensions | 360mm x 290mm x 140mm (L x W x D) | |

| Included Accessories | | |
|---|---|--|
| Certificates | Instrument calibration certificateISO 17025 UKAS tile calibration certificate | |
| Cables | USB data & mains cable | |
| USB Containing: | Instruction manual Bluetooth data app Example Excel spreadsheets Novo-Gloss Multi Gauge software Instruction videos | |
| Calibration standard | High gloss calibration standard with cleaning cloth | |
| Sample positioning template, wrist strap, quick start guide | | |

| Order Codes | | |
|----------------------|-------------|--|
| Rhopoint IQ 20/60 | A6000-013.1 | |
| Rhopoint IQ 20/60/85 | A6000-011.1 | |





Free extended 2 year warranty:

Requires registration at<u>www.rhopointinstruments.com</u> 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 economic service via our global network of accredited calibration and service centres. Please visit www.rhopointinstruments.com for detailed information.

Languages



















Ethically Sustainable

The Rhopoint IQ is made from an all aluminium construction which means it can be recycled at the end of its long life.















We offer two options for you to try out the Rhopoint IQ before buying

- Online demonstration: Online presentation of the Rhopoint IQ with your samples measured LIVE on Zoom, Microsoft Teams or Skype. Includes a consultation with an application specialist
- **Pactory 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

Rhopoint Instruments Ltd Rhopoint House, Enviro 21 Park, Queensway Avenue South, St Leonards on Sea, TN38 9AG, UK

T: +44 (0)1424 739 622 E: sales@rhopointinstruments.com www.rhopointinstruments.com

ISO 9001
Query
Management
Systems
CERTIFIED

CERTIFIED

CERTIFIED

CERTIFIED

CERTIFIED

CERTIFIED

Rhopoint Americas Inc. 1000 John R Road, Suite 209, Troy, MI 48083, USA

T: 1.248.850.7171 E: sales@rhopointamericas.com www.rhopointamericas.com Rhopoint Instruments GmbH Seebauer Office Center, Am Weiglfeld 24, 83629 Weyarn, Deutschland

T: +49 8020 9214-988 E: info@rhopointinstruments.de www.rhopointinstruments.de