

Novo Gloss Meter – Stats Model

2 Year Guarantee

Gloss is measured by directing a constant power light beam at an angle to the test surface and monitoring the reflected light. Different surfaces require different reflective angles. Rhopoint gloss meters cover the range necessary to measure any surface from mirror to matt, providing a quantitative value to gloss measurement

Increasingly specifications and standards require a physical assessment of gloss. Gloss measurement is necessary to monitor the uniformity, compatibility or possibly the deterioration of any protective gloss finish.

MAJOR USERS of Novo Gloss Stats Model :

Plascon, Dulux, Swartklip, 5 Motor Assemblers

Unique Features

- **NOVO-GLOSS™** provides accurate gloss measurement from matt to mirror finish.

Applications

Areas of use include:

- **Painted Surfaces** - Initial Appearance and Ageing
- **High Gloss Paints** - QC in Automobile Manufacture
- **Reflectance / Reflectometer** : Fading, Chalking & Shade
- **Plastics** - Quality of Moulding
- **Blasted Surfaces** – Oxidation & Cleanliness
- **Decorative Stonework** - Polished Marble and Granite
- **Waxes And Polishes** - Cars and Tiled Floors
- **Furniture** - Natural Wood Finish and Varnishing
- **Metals** - Plated or Grain Finish
- **Mirror Finish And Polished Metals** - Chromework and Lobby Decorations
- **Paper** - Roughness and Quality
- **Ceramics** - Tiles, Bathroom Furniture, Etc.
- **Food Processing** - Cheeses, Glazes, Etc.
- **Cosmetics** - Lip-Gloss, Nail Varnish, Etc.
- **Textiles** - Camouflage Matt to Shiny Silk



Features

Only **NOVO-GLOSS™** has these unique advantages:

- Continuous readings for variable surfaces - holding the read button allows continual measurements.
- Simultaneously moving the instrument over an irregular finish allows rapid assessment of average gloss over a large surface area.
- Calibration possible using any standard - user is not restricted to using the standards supplied.
- Auto-ranging from 0-1000 Gloss Units at 60° - allows gloss readings over the entire range from non-reflective surfaces to mirror finish.

NOVO-GLOSS™ also provides:

- Down loading of data into a PC to give batch gloss profiles
- Permanent memory storage of up to 999 readings
- Internal calculation of max., min., mean and coefficient of variation
- Display available in English, Français, Deutsch, Italiano or Español

Technical Details

Gloss is determined by comparing reflected light intensity from a test surface with that from a standard surface. Angle of measurement chosen is dependent on the type of surface measured.

- Lamps are long life tungsten halogen, closely conforming to CIE illuminant C.

Technical advantages include:-

- Durability & stability achieved through solid optical block arrangement
- Repeatability achieved using patented auto-stabilisation circuitry
- Minimised down time through field serviceable design



NOVO-GLOSS™ Triple angle NG20/60/85/S model with full statistical functions - any finish from matt to high gloss, such as marble.



NOVO-GLOSS™ Single angle NG60/S statistical model. The 60° angle is universally applicable, for example, in the furniture industry.



SOFTWARE

PC software able to receive **NOVO-GLOSS™** data is supplied (on 3½" diskette). Functions include full statistical analysis, graphing and automatic report production. Data can be exported to spreadsheet packages, such as Excel or Lotus.

Also Available :

- Gloss Checkers for use on Curved Surfaces
- Whiteness / Brightness Meters
- Hiding Power Meters
- Wet Film Opacity : Efficient Use of Titanium Dioxide in Paints; Optimisation of Extender Formulation; Pigment Dispersion & Flocculation Experiments
- Thin Film Analyser
- Minimum Film Forming Temperature Bars for Emulsions, Polymers & Adhesives

Choosing your NOVO-GLOSS™

Use the table below to help in the selection of the instrument most suitable to your needs

Type	Angle(s)	Example Applications	Operating Standards	Statistical	Non-Statistical
Single Angle	20°	High gloss paint (cars), plastics, varnish and polished metals	ISO 2813 ASTM D523 BS 3900 D5	NG20/S	NG20
	60°	Universal for paints, metal, anodised Al, plastics and varnish	DIN 67530 JIS Z 8741	NG60/S	NG60
	85°	Matt paint and surfaces in aviation, military, furniture and automobile interiors	TAPPI T653 (20°)	NG85/S	NG85
	45° 75°	Anodised Al, ceramics, china and textiles Paper, card and foil	BS 6161 Pt 12 JIS Z 8741 ASTM C346 TAPPI T480, JIS Z 8741	NG45/S NG75/S	NG45 NG75
Dual Angle	20° & 60°	Dual and triple angle instruments are suitable for use in each of the applications relevant to the corresponding single angles	Dual and triple angle instruments are supplied conforming to all the standards for the respective angles highlighted in bold above	NG20/60/S	NG20/60
Triple Angle	20°, 60° & 75°			NG20/60/75/S	NG20/60/75
	20°, 60° & 85°			NG20/60/85/S	NG20/60/85

Order Information

Non-Statistical gloss meters without memory, statistical functions and interface facilities are available if required.



Gloss measuring range for these instruments is 0 - 199.9 GU. Instrument operating language can be altered by the user, but is initially set to the language most relevant to the country of supply, unless otherwise specified. Instruments may be configured to measure according to any of the standards listed for each angle.

If none is specified, the default standards (in bold) are used. Mixing of standards on multi-angle instruments is possible. Please note that some standards, such as ISO 2813 and BS 3900 D5, are identical.

Accessories

All instruments are supplied in protective case with certified BAM traceable calibration standards, battery charger/mains adapter, Software, RS 232 cable, cleaning kit and spare lamp and instructions.

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Features

Instrument range

<i>Angle</i>	<i>Conforms to Spec</i>	<i>Order Code</i>
20	TAPPI	NG205 (T)
20	ISO	NG205 (I)
45	ASTM	NG455 (A)
45	BS	NG455 (B)
45	BS Method (e)	NG455 (BE)
60	ISO	NG605
60	Comparator ASTM	NG605C
75	TAPPI	NG755 (T)
75	J.I.S.	NG755 (J)
85	ISO	NG855
45/0	Reflectometer	NGR45 5
60-20	ISO	NG60-205
20-60-85	ISO	NG20-60-855
20-60-75	ISO	NG20-60- 755

Auto-ranging facility Gloss measurements 0.1 to 1000 gloss units. Same instrument used for paint, plastics, substrate metal, plating, metallised plastics.

Display 24 Ch 2 line "Super Twist" Dot Matrix gives high contrast ratio and wide viewing angle.

Continuous reading With the read button depressed continuous readings can be taken to assess the variation on the surface.

Full calibration facilities In conformity with ISO, DIN, BS, ASTM and all national standards, plus settable auto calibration.

Calibration titles Certificated and traceable to BAM. Intermediate calibration standards available to check linearity down to 5 and up to 950 gloss units.

Operation All functions are push button operations.

Automatic zero No zero drift.

Source Tungsten halogen filtered to illuminant C with infra-red compensation

Coincidental vertical plane of measurement Multiple angle instruments read the same surface from identical direction.

Auto compensation for lamp ageing Negligible calibration drift using exclusive optoelectrical compensation arrangement (pat app).

Lamp replacement in house Long life lamps easily replaced in minutes. Spare lamp supplied.

Statistics Max, Min, Average, Number of Readings. Standard Deviation.

Memory Memory to 999 readings in each angle. Data in memory downloads directly via RS232 port to printer or computer (no interrogate programme needed). Data retained in memory after download until deliberately reset.

False entry delete False readings can be deleted in turn and the statistics are automatically corrected.

Disable facility A very simple entry modifies operation to that of a simple non-statistical glossmeter. Re-enable entry restores statistical functions.

Mains and battery operation Mains recharger unit also serves as a mains adaptor if batteries discharged

2 year guarantee

Specifications

Units Available :	Single Angle Units	Dual Angle Units	Triple Angle Units
Geometry :	20°, 60° or 85°	20° and 60°	20°, 60° and 85°
Dimensions :	150 x 50 x 110 mm	150 x 50 x 110 mm	180 x 50 x 110 mm
Weight :	0.9 kg	1.1 kg	1.2 kg
Power :	Rechargeable batteries and mains adapter		
Packing List :	Glossmeter, battery charging unit, BAM traceable certified calibration standards, software & cable, cleaning kit, spare lamp, instructions all in a protective case		
Accuracy :	±0.5 GU*		
Range :	0 - 1000 GU		
Repeatability :	±0.5 GU *		

* This is subject to the uncertainty in the BAM calibration standards, and is applicable to all gloss meter manufacturers