



Paint Test Equipment



Gloss



Gloss Meter

Gloss and Haze measurement is essential where an aesthetic appearance of the coating finish is required and to ensure uniformity of the surface finish.



Gloss is measured with angles of 60° and 20°. The 60° angle is universal for all applications. The 20° angle gives improved differentiation of measurement on high-gloss coatings above 70 gloss units.

Haze measurement is required where high-gloss surfaces have a low reflection contrast.

The haze measurement is the difference between readings taken with the 60° and 20° angles, complying with International Standard ASTM D 4039. The haze function is only available on combined 60°/20° models.

All functions are easily accessible through a menu-driven back-lit display.

Calibration. Calibrate on the supplied Gloss Tile or any other value Gloss Tile.

Statistics. Continually shows Mean, Number of Readings, Max/Min, Coefficient of Variation and Standard Deviation.

Limits. Pass and fail with audible and visual alarm.

Specification

Accuracy: ± 1 .

Resolution: 0.1GU.

Repeatability: 0.2GU.

Compliance

ISO 2813



Gloss Meter

Supplied in an industrial foam-filled Carrying Case with Gloss Tile and Charger. The Top Model is supplied with USB Download Cable and Download Software.

The Calibration Certificates with traceability to UKAS are an optional extra.



Ordering Information

G2001	Gloss Meter Standard 60° 0–100GU
G2002	Gloss Meter Standard 60°/20°/Haze 0–100GU/HU
NG001	Gloss Meter Calibration Certificate
NG002	Calibration Tile Calibration Certificate



Instructions

Switch On/Off

To switch the Gloss Meter on, press the On/Off button for approximately 1 second. The display will show the last reading taken.

The instrument will automatically switch off after approximately 5 minutes if no readings have been taken. The instrument can also be switched off by pressing the On/Off button again.



Taking Readings

Observe the location of the oval measuring hole (25mm x 12mm) on the base of the instrument, which is where the gloss readings will be made. The location is identified by the arrow on the front and the arrows each side of the case.

Place the Gloss Meter onto the object to be measured and press the Read button. The reading will be held on the display until another reading has been taken.

Always ensure that the surface being measured is flat, and large enough to cover the oval measuring hole.

Readings on the same surface can vary if the light angle onto the surface is changed (the light source is from the left when looking at the front of the Gloss Meter).

Menu

All functions are accessed through a menu-driven display. To scroll through the menus use the up and down arrows and enter where indicated.

To exit from the menu, press the Menu button again and the Gloss Meter will revert back to normal measurement mode.



Instructions

Angle

This function is only available on combined 60°/20°/Haze models. On the Gloss Meter Top Model with Batching On, when the angle is being changed there will be a request for Enter Job No, as different angles cannot be contained in the same batch.



Select 60°

The 60° angle is universal for all applications.

Select 20°

The 20° angle gives improved differentiation of measurement on high-gloss coatings above 70 gloss units.

Select Haze

Haze measurement is required where high-gloss surfaces have a low reflection contrast.



Instructions

Calibration

Always ensure that the Gloss Tile and the base of the Gloss Meter are clean before calibrating. To clean the Gloss Tile, wipe with a soft paper towel moistened in warm water containing a small amount of detergent, then wipe dry with a soft paper towel.



Operator Cal

For the highest accuracy of measurement, the Gloss Meter has a variable calibration facility.

The calibration is carried out by placing the Gloss Meter in the Gloss Standard ensuring that the measurement area is correctly located on the Gloss Tile. Calibration can then be carried out by entering the Gloss Tile value.

Factory Cal

When selected, this will reset the instrument to a standard calibration.

If you are using a combined 60°/20°/Haze instrument, the calibration is only reset to the angle selected. The Gloss Tile is not required for this calibration. Limit settings, if selected, will be cleared.



Instructions

Clear Memory

Clears the Gloss Meter memory of all batches and stored readings. Does not affect calibration values.





Instructions

Statistics

The statistics can be displayed on the lower line of the display. The statistics will be automatically updated when additional readings are taken.



Mean

Average of all readings.

Number Readings

Number of readings taken.

SDV

Standard Deviation of readings taken.

Coefficient

Coefficient of Variation of readings taken.

Maximum

Maximum reading.

Minimum

Minimum reading.

Statistics Off

Removes the displayed Statistics.



Instructions

Control



Check Bat Life

Battery life can be examined to determine the percentage of the battery life available. Low Battery will appear on the display when recharging is required.

To charge the Gloss Meter, plug the charger into the circular hole on the side of the unit and charge for approximately 12 hours.

Set Limits

Limits can be set to establish a high and also a low pass/fail threshold.

For out-of-limit readings an error display will be shown and the alarm will be sounded. The error amount will be shown as a percentage, which is the difference between the set high or low limit and the particular reading.

To remove limits press Clear Entry instead of entering numbers when setting limits.

Set Date/Time

The date and time can be set. This will be recorded with every batch stored, and appear on all batches downloaded.

Eng Mode

This function is for Paint Test Equipment use only.

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Install Name

The Gloss Meter can be personalised with your company, department or operator's name. This will appear on the display when the instrument is switched on.

By entering the following ascii codes the name can be entered:

A-65, B-66, C-67, D-68, E-69, F-70, G-71, H-72,
I-73, J-74, K-75, L-76, M-77, N-78, O-79, P-80,
Q-81, R-82, S-83, T-84, U-85, V-86, W-87, X-88,
Y-89, Z-90.

a-97, b-98, c-99, d-100, e-101, f-102, g-103, h-104,
i-105, j-106, k-107, l-108, m-109, n-110, o-111,
p-112, q-113, r-114, s-115, t-116, u-117, v-118,
w-119, x-120, y-121, z-122.

Space character is 32.

When Enter is pressed without a character input, the display will exit to normal measurement mode.

About Us

Paint Test Equipment is a global leader in the manufacture of specialist test equipment specifically for the industrial painting and coating industries for the protection of steel assets from corrosion, mainly in the oil, renewables and steel construction sectors. We have over 30 years experience and extensive knowledge in delivering practical solutions in supporting our customers with world class products for corrosion prevention.

Prevention of corrosion on steel is essential to extend the asset lifetime, optimise performance and minimise downtime for expensive maintenance work. Using Paint Test Equipment products ensures that industrial coatings are applied to the highest achievable quality standards of ISO compliance.

We supply small, medium and multinational companies with the full range of technologies and innovations in our unrivalled portfolio of products for our customers to grow their business and enhance profits through cost effective corrosion management equipment.

Paint Test Equipment is committed to providing proactive and innovative solutions to meet customer requirements for the highest quality, user friendly inspection equipment. Paint Test Equipment is the partner of choice.

Paint Test Equipment reserves the right to alter specifications without prior notice.
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