

Paint Test Equipment

Surface Profile Gauge Data Sheet





Complies with International Standards

ASTM D 4417-B

SABS 772

Surface Profile Gauge

The Surface Profile Gauge allows the peak-to-valley height of a blast-cleaned surface to be accurately measured in accordance with the ASTM D4417 Standard.

A simple-to-use Surface Profile Gauge, offering a high resolution of 1µm (0.1mils).

The blasted profile is measured very quickly and with a high degree of accuracy by operating the instrument as follows: Place the Profile Gauge on the glass plate and zero the instrument. Now place the gauge on the blasted profile. The foot sits on top of the peaks and the sharp stylus travels to the bottom of the valleys allowing the gauge to display the peak-to-valley height.

In addition to blasted profile evaluation, this gauge can also be used for pitting and cavity depths caused by corrosion.

Readings are switchable between metric and imperial.

Calibration Certificate with traceability to UKAS is an optional extra. The Certificate is supplied in a paper format and is available online through the Calibration Portal (under Browse Categories) on our website. The Calibration Portal will list all your equipment that is calibrated by Paint Test Equipment, showing the renewal dates and allowing Calibration Certificates to be viewed at any time.

Supplied in a foam-filled Carrying Case with Glass Zero Disk.

Surface Profile Gauge Specifications

Part No	Range Metric	Resolution	Accuracy	Cal Cert Part No
R1006	0–1000µm 0–40mils	1µm 0.1mils	±2%	NR002

Operation

Switch On / Off

To switch on press the On button briefly. To switch off press the Off button and hold.

Calibration

The Surface Profile Gauge is calibrated to zero using the Glass Plate. Place the foot of the gauge carefully on the Glass Plate ensuring that the foot is firmly placed. Hold the gauge steady and set to zero by pressing the Set button. Recheck that the gauge reads zero by lifting off and placing down again on the Glass Plate. The gauge has been zeroed and is now ready to take measurements.

Taking Measurements

Ensure that the Surface Profile Gauge reads zero on the Glass Plate. Measurements are made by carefully placing the gauge foot on the blast-cleaned surface to be measured. The stylus will move to the bottom of the valley. Observe the measurement reading on the display. The distance now being measured is the difference between the peaks that the foot has been placed on and the tip of the stylus resting in the valley.

Care must be taken to ensure that the sharp stylus is not blunted in any way. Replacement styluses are available from Paint Test Equipment.

Metric or Imperial

To select metric or imperial measurements press the mm/inch button briefly.

Replacing Battery

When the display shows a B symbol, the battery requires changing. Remove the two mouldings and remove the battery using a small screwdriver. Ensure that the battery is removed for 30 seconds before replacing it again, ensuring correct polarity when inserting the battery. Battery type: Lithium CR 2032. Finally reset electronics by removing the circular reset moulding and pressing the contact at base of hole with an insulated probe.



About us

Paint Test Equipment are manufacturers of a comprehensive range of specialist instruments for the Industrial Coatings and Finishings Industries and have been supplying instruments to customers worldwide for over 25 years.

During this time Paint Test Equipment have established a reputation for manufacturing quality instruments to the highest specification, to meet the demanding requirements of the Industrial Painting Industry.

Recalibration

Paint Test Equipment can service and recalibrate all applicable products that we supply.

We recommend that the equipment is returned on a 12-monthly basis to Paint Test Equipment for service and recalibration.

Calibration Certificates will have traceability to UKAS or BAM. The Certificate is supplied in a paper format and is available online through the Calibration Portal (under Browse Categories) on our website. The Calibration Portal will list all your equipment that is calibrated by Paint Test Equipment, showing the renewal dates and allowing Calibration Certificates to be viewed at any time.

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