

# BB20 Layer thickness measuring device

Quick thickness measurements of car paint and other coatings

Thanks to its innovative dual sensor, the BB20 enables measuring the thickness of non-magnetic coatings such as paints, varnishes, plastic coatings, zinc coatings, enamellings or chrome plating both on iron or steel and also on non-ferrous metals like aluminium, magnesium, titanium etc.

The measuring head is spring-loaded and equipped with a practical V groove. This way, the measuring of round objects such as axes or hinges is easier and not influenced by vibrations.

The measuring device, comfortably to be used with one hand, impresses with a broad measuring range from 0 to 1,250  $\mu\text{m}$  and ensures precise measuring results in every situation plus it comes with additional helpful statistics displays and a convenient alarm function when exceeding or falling below a predefined layer thickness.

The professional equipment features make the BB20 an indispensable tool in the motor vehicle sector, e.g. for paintwork control measurements or the detection of repainted accidental damages – but also for the universal check of hand rail and ship's paint or other protective coatings.



## A few practical benefits

- Dual sensor for thickness measurement of non-magnetic layers on all magnetic and non-magnetic metals
- Broad measuring range from 0  $\mu\text{m}$  to 1,250  $\mu\text{m}$
- Spring-loaded measuring head
- V groove for measurement to be performed at round surfaces
- Alarm function when exceeding or falling below a freely definable layer thickness
- Various statistical functions such as maximum, minimum and average layer thickness
- Two-point calibration for pinpoint accuracy
- Memory space for up to 400 measured values
- USB interface for measuring data transfer to a PC
- Easy one-hand operation
- Backlit display
- Automatic switch-off
- Battery status indication



## Technical data

Article number	3.510.205.075
Sensor	Ferromagnetic ground, Non-ferrous metal ground
Functional principle	Magnetic induction, turbulent flow
Guaranteed tolerance	Fe: $\pm 3\% + 1\ \mu\text{m}$ (at 0 $\mu\text{m}$ up to 850 $\mu\text{m}$ ) Fe: $\pm 5\%$ (at 850 $\mu\text{m}$ up to 1,250 $\mu\text{m}$ ) nFe: $\pm 3\% + 1.5\ \mu\text{m}$ (at 0 $\mu\text{m}$ up to 850 $\mu\text{m}$ ) nFe: $\pm 5\%$ (at 850 $\mu\text{m}$ up to 1,250 $\mu\text{m}$ )
Minimum bending radius (surface)	Fe: 1.5 mm nFe: 3 mm
Minimum measuring surface	Fe: $\varnothing 7\ \text{mm}$ nFe: $\varnothing 5\ \text{mm}$
Critical primary layer thickness	Fe: 0.5 $\mu\text{m}$ nFe: 0.3 $\mu\text{m}$
Measuring range	0 $\mu\text{m}$ up to 1,250 $\mu\text{m}$
Accuracy	$\pm 0.1\ \mu\text{m}$
Functions	Minimum value display, Maximum value display, Average value display, Automatic switch-off, Backlit display, Acoustic alarm function, Sensor for ferromagnetic ground, Sensor for non-ferrous metal ground, Two-point calibration, Standard deviation
Power supply	2 x 1.5 V, AAA
Dimensions	110 mm x 24 mm x 54 mm
Weight	114 g
Scope of delivery	Measuring device, Battery(-ies), Transport case, USB cable, Software, Calibration accessories, Operating manual

# BB30 Layer thickness measuring device



Professional layer thickness measurement of car paint and other coatings

With the BB30 you can quickly and precisely determine the thickness of non-magnetic coatings such as paints, varnishes, plastic coatings, zinc coatings, enamellings or chrome plating both on ferromagnetic and non-ferromagnetic metals. The sensitive dual sensor is just as precise on iron and steel as it is on non-ferrous metals like aluminium, magnesium or titanium.

The spring-loaded measuring head comes with a practical V groove. On the one hand this simplifies measurements of round objects, e.g. axles or hinges and on the other hand, they become insensitive to vibrations.

Whether you use the instrument conveniently with just one hand, or for use on difficult-to-reach measuring points in combination with the included flexible probe extension - the BB30 always delivers accurate measurement results with a measuring range between 0 and 2,000  $\mu\text{m}$ . Saved measured values and groups are available directly on the device if required. Furthermore, the data transfer is effected via Bluetooth – simple and wireless.

Regardless of whether for use in the automobile sector, for layer thickness measurement of hand rail and ship's paint or checking enamellings – the BB30 is the ideal hand-held measuring device for pros in this and other fields.



## A few practical benefits

- Dual sensor for thickness measurement of non-magnetic layers on all magnetic and non-magnetic metals
- Broad measuring range from 0  $\mu\text{m}$  to 2,000  $\mu\text{m}$
- Spring-loaded measuring head
- V groove for measurement to be performed at round surfaces
- Convenient probe extension to reach poorly accessible measuring locations
- Error indicator for incorrect measuring
- Simple zero point calibration for quick operational readiness and high precision
- Memory space for up to 2,500 measured values
- All stored values and groups can be called up directly at the device
- Bluetooth interface for PC measuring data transfer
- Adaptive display illumination
- Automatic switch-off
- Battery status indication



## Technical data

Article number	3.510.205.077
Sensor	Ferromagnetic ground, Non-ferrous metal ground
Functional principle	Magnetic induction, turbulent flow
Guaranteed tolerance	Fe: $\pm 2\% + 2\ \mu\text{m}$ (at 0 $\mu\text{m}$ up to 1,000 $\mu\text{m}$ ) Fe: $\pm 3.5\%$ (at 1,000 $\mu\text{m}$ up to 2,000 $\mu\text{m}$ ) nFe: $\pm 2\% + 2\ \mu\text{m}$ (at 0 $\mu\text{m}$ up to 1,000 $\mu\text{m}$ ) nFe: $\pm 3.5\%$ (at 1,000 $\mu\text{m}$ up to 2,000 $\mu\text{m}$ )
Minimum bending radius (surface)	Fe: 1.5 mm nFe: 3 mm
Minimum measuring surface	Fe: $\varnothing 7\ \text{mm}$ nFe: $\varnothing 5\ \text{mm}$
Critical primary layer thickness	Fe: 0.5 $\mu\text{m}$ nFe: 0.3 $\mu\text{m}$
Measuring range	0 $\mu\text{m}$ up to 2,000 $\mu\text{m}$
Accuracy	$\pm 0.1\ \mu\text{m}$ (at 0 $\mu\text{m}$ up to 100 $\mu\text{m}$ ) $\pm 1\ \mu\text{m}$ (at 100 $\mu\text{m}$ up to 1,000 $\mu\text{m}$ ) $\pm 0.01\ \text{mm}$ (at 1,000 $\mu\text{m}$ up to 2,000 $\mu\text{m}$ )
Functions	Minimum value display, Maximum value display, Average value display, Automatic switch-off, Backlit display, Sensor for ferromagnetic ground, Sensor for non-ferrous metal ground, Error indicator for incorrect measuring, Bluetooth, Battery status indication
Power supply	2 x 1.5 V, AAA
Dimensions	114 mm x 27 mm x 54 mm
Weight	152 g
Scope of delivery	Measuring device, Battery(-ies), Transport case, Calibration accessories, Probe cable extension, Operating manual