

byko-test 8500

The byko-test 8500 film thickness gage has a modular design to accommodate a wide range of applications. Multiple sensor probes are available for maximum flexibility. Coating thickness can be measured on a wide variety of metal substrates: iron, steel, copper, aluminum, zinc, brass, and titanium.

- Illuminated graphical display and keypad
- Easy to use menu
- One-hand operation
- Flip display by 180 degrees
- Multi-language support
- Modular design with exchangeable probes
- Automatic and user specific calibration
- Wireless data transfer to PC (optional)
- Durable, wear-resistant ruby probe tip
- V-groove in probe for measuring cylindrical parts
- Acoustic signal for measurement confirmation

Two models are available for different requirements:

Basic version

With all important functions needed to measure and evaluate the thickness of non-metal layers on metal substrates. Basic statistical functions, memory for up to 100 readings, optional wireless connection to a PC and data transfer to Excel.

Premium version

Enhanced memory functions, batch measurement with up to 13000 measurements in 200 batches, memory for up to 100 custom calibrations, software and wireless data transfer, average zero adjustment for rough substrates, single and continuous measurement modes included.

Ordering Information

| Cat. No. | Description |
|----------|-------------------------------|
| PG-3661 | byko-test 8500 basic Fe |
| PG-3662 | byko-test 8500 basic NFe |
| PG-3663 | byko-test 8500 basic Fe/NFe |
| PG-3664 | byko-test 8500 premium Fe |
| PG-3665 | byko-test 8500 premium NFe |
| PG-3666 | byko-test 8500 premium Fe/NFe |

byko-test 8500 basic Comes complete with:

Instrument ; 2 mm Standard Sensor; 2 Mignon-Batteries 1.5V (AA) (Alkaline); Adapter cable for external sensor; Instruction manual; Certificate for sensor; softbag; carrying case; Zero plates

byko-test 8500 premium Comes complete with:

Instrument; 2 mm Standard Sensor; 2 Mignon-Batteries 1.5V (AA) (Alkaline); Adapter cable for external Sensor; Instruction manual; Certificate for sensor; Softbag; Carrying Case; Zero plates; Software; USB-wireless connector incl. Elongation cable



Standards

| | |
|------|-------------------------------|
| ASTM | B 499, D 1400, D 1186, D 7091 |
| BS | 3900 Part C5, 5411 (3,11) |
| DIN | 50981, 50984 |
| ISO | 2178, 2360, 2808, 19840 |

Technical Specifications

| | |
|------------------------------------|---|
| Text | |
| Resolution | 0.1 µm 0 - 99.9 µm, 1 µm 100 - 999 µm 0.01 mm ≥ 1.00 mm |
| Accuracy | ± (1 µm + 2%*) 0 - 2000 µm ± 3,5%* > 2000 µm (* percent of measurement value) |
| Measurement Range | 0 - 2000 Mm (0 - 80 mils) |
| Minimum Area of Measurement | Fe: 20 x 20 mm (0.79 x 0.79 in) NFe: 20 x 20 mm (0.79 x 0.79 in) |
| Minimum Curvature | convex 5 mm (0.20 in); concave 30 mm (1.2 in) |
| Minimum Substrate Thickness | Fe: 0.2 mm (0.008 in) NFe: 0.05 mm (0.002 in) |
| Communication | Wireless Connection 2.4 GHz, distance max. 10 m |
| Temperature Range | Storage -10°C (14°F) to 60°C (140°F) Usage 0°C (32°F) to 50°C (122°F) |
| Power Supply | 2 x Mignon-Batteries (AA) 1.5V Alkalior rechargeable-Batteries (AA) 1.2V |
| Dimensions | 124 mm x 67 mm x 33 mm (4.9 x 2.6 x 1.3 in) |
| Weight | ca. 120g (instrument with batteries and probe) |

Wireless Sensor

Wireless Sensor for areas difficult to access with internal and external sensors. The new wireless sensor for the byko-test 8500 is built for all applications requiring a small sensor without direct connection to the instrument.

byko-test 8500 wireless sensor has a long lasting rechargeable batteries, a broad reach of 12 m and is available as single or dual sensor.

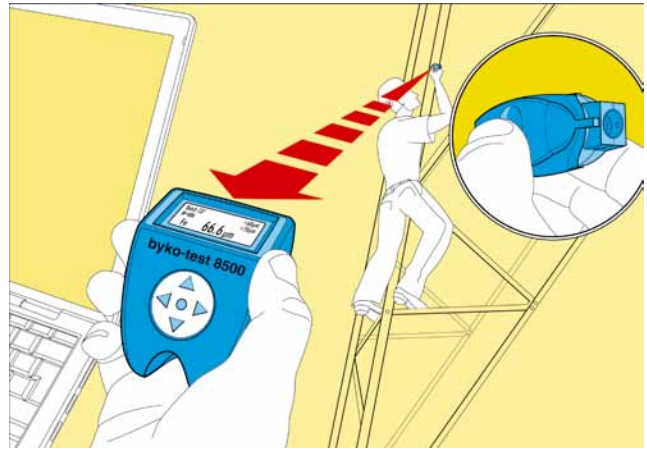
Thickness Standards

For control and inspection purposes individual shims or sets of thickness standards are available, see page 195.



Certified Calibration Shims

These plastic shims (PG-3740 / PG-3741) aid in the calibration of thickness gages on ferrous or non-ferrous metallic substrates. Plastic shims can be used to calibrate on the actual test substrate.



Accessories

| Cat. No. | Description |
|----------|--|
| PG-3640 | byko-test 8500 basic without sensor |
| PG-3641 | byko-test 8500 premium without sensor |
| PG-3642 | Fe-sensor 2000 μm /80 mils |
| PG-3643 | Fe-sensor 5000 μm /200 mils |
| PG-3644 | NFe-sensor 2000 μm /80 mils |
| PG-3645 | Dual-Sensor Fe/NFe2000/ 2000 μm and 80/80 mils |
| PG-3646 | Dual-Sensor Fe/NFe5000/ 2000 μm and 200/80 mils |
| PG-3740 | Calibration Shims 25-500 microns (1 -19.7 mils) with Zero plates |
| PG-3741 | Calibration Shims 11-980 microns (0.43 - 38.6 mils) with Zero plates |
| PG-3647 | Software |
| PG-3648 | USB-wireless connector incl. Elongation cable |
| PG-3667 | Wireless Fe-Sensor 2000 μm /80 mils |
| PG-3668 | Wireless NFe Sensor 2000 μm /80 mils |
| PG-3669 | Wireless Dual Fe/NFe Sensor 2000 μm /80 mils |