

NEW! QNix® 8500: Magnetic-Inductive Measurement Probe MI Fe 500 µm
Extension of our modular measurement system QNix® 8500:
A pen shape probe for precise measurements of particularly thin coatings
and smallest parts.

In addition to our standard probes, operating based on the Hall-sensor-principle, there is a magnetic-inductive measurement probe for measurements within a measuring range of 0 to 500 µm, capable of the most precise measurements of non-ferromagnetic coatings especially within the lower measuring range.

Designed to measure thin non-ferromagnetic metal coatings (such as: chromium, copper, zinc, etc) as well as lacquer, enamel or plastic coatings on steel substrates using the magnetic-inductive measuring method, our probes deliver measurements in accordance with the DIN EN ISO 2178, ISO 2808 and ASTM B499 standards.

Manual measurements or use of a measurement stand :

Thanks to our pen shape probe manual adjustments on measuring objects are easy to achieve and accurate. For applications demanding highest precision, we recommend mounting the probe on a measurement stand, available with additional sample holders.

Broad range of applications:

Our new probe – the latest modular addition to the QNix® 8500 measurement system – allows customers to individually specify calibrations for convenient measurements of thin coatings on small parts.



A quality product from

Examples of use:

- Measurements on angle brackets, fasteners, shim washers, screws, bolts and nuts.
- Ensuring – within a measuring range of 20 µm – the reliability of protective coatings on steel bolts and nuts used for e.g. rotor mounts of wind energy plants, fasteners on bridge or window fixings.
- Used for hard thin film coatings (Physical Vapour Deposition – PVD-coatings), such as: TiN, TiCrN, CrN and TiAlN

Product Advantages:

- Designed for manual measurements and the use of stand equipment
- Proven easy-to-use guided operation of the QNix® 8500 measurement system
- Magnetic-inductive and (optional) Hall-effect measurement methods combinable in one gauge
- Interchangeable probes
- Individual naming of calibration programs and memory
- Excellent probe adjustment thanks to the pen shape
- Rugged probe thanks to stainless steel housing
- Linked digital measurement electronics and measurement probe for keeping the zeroing even after interchanging probes

Available Application-Software

Now, user-oriented PC software complements our QNix® 8500 measurement system, adding a variety of options for reality based data evaluation and gauge configuration:

- Wireless communication between PC and gauge
- Gauge memory read-out
- Flexible data evaluation with Microsoft Excel
- Gauge configuration using the PC
- Supporting all common languages
- Online measurements

Scope of Supply

- Measuring probe MI Fe 500 µm
 - Carrying-case (probe case only or together with the QNix® 8500 carrying-case)
 - 2 alignment rings
 - Steel reference plate, circular, 25 mm in diameter
 - Reference foils: ca. 6, 11, 24, 50 µm
 - Certificate
 - Instruction manual
- Optional:
- Measurement stand
 - Sample holder

Technical Data QNix® 8500 Magnetic-Inductive Measurement Probe MI Fe 500 µm

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|--|---|
| Measuring Method | Magnetic Measuring Method Fe: Magnetic-induction refer to (*Fe) |
| According to Standards | DIN EN ISO 2808, DIN 50981, ISO 2178, BS 5411 (11), BS 3900 - C5, ASTM B499, ASTM D 1186, ASTM D 7091 |
| Probe Type | QNix® 8500 probe type |
| Measurement Range | Fe: 0.0 to 500 µm or approx. Fe: 0.0 to 20 mil |
| Different Measuring Units µm/mil | with the QNix® 8500 gauge |
| Measuring Interval | 1600 ms |
| Repeatability in regard to the Automation-Standards | ± (0.1 µm + 0.8% of the measurement value) |
| Trueness in regard to the Automation-Standards after Calibration | ± (0.3 µm + 2% of the measurement value) after calibration |
| Smallest Measuring Area | Diameter: 7.0 mm Measuring radius: 3.5 mm (*1) |
| Smallest Radius of Curvature | smallest convex radius : 4 mm (*1) smallest concave radius: 5 mm (*2) |
| Smallest Thickness of Base Material | Fe: 0,4 mm (*1) |
| Range of Operating Temperature | 0 °C to 50 °C (32 °F to 122 °F) |
| Permissible Storage Temperature | -10 °C to 60 °C (14 °F to 140 °F) |
| Electric Power Supply | From gauge |
| Dimensions (L x W x H in mm) | Probe without connection cable 120 mm x 12 mm x 12 mm (4.72" x 0.47" x 0.47") |
| Weight | approx. 95 g |

(*Fe) Measuring of non-ferromagnetic coatings on ferromagnetic substrate, e.g. measuring on steel- or iron substrates
 (*1) in regard to a maximum deviation of 10 % of the measurement value at coating thicknesses higher than 1 % of the measuring range. Measurements on smallest geometrical forms are possible with specific one-point or two-point calibrations.
 (*2) in regard to the measuring probes geometry

Technical data subject to change without notice



* According to our terms of sale.

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