

## Equipment

### Scope of supply

- ▶ Handheld gauge with optional probe
- ▶ 2 batteries AA 1,5V (alkaline)
- ▶ Adapter cable for external probe
- ▶ Instruction manual
- ▶ Test certificate for optional probe
- ▶ Soft pouch with clip
- ▶ Case for transport and storage



### Options

- ▶ Fe-Probe 2 mm (80 mil)
- ▶ Fe-Probe 5 mm (200 mil)
- ▶ NFe-Probe 2 mm (80 mil)
- ▶ Dual-Probe Fe/NFe 2 mm (80 mil)
- ▶ Dual-Probe Fe/NFe 5 mm (200 mil)
- ▶ Calibration shims, Zero reference plates, also available as set
- ▶ **QuaNix®**-Software for transfer to and evaluation of the data in EXCEL and for gauge configuration (\*)
- ▶ USB interface (including extension cable) for wireless bi-directional data transfer between gauge and PC (\*)

(\*) Already included in the scope of supply of the **QuaNix®8500** Premium version

Design: www.streng-christi.de

## Non Destructive Coating Thickness Measurement

# QuaNix<sup>®</sup> 8500



Original gauge size



## The Gauge System Setting New Standards

- ▶ Modular system with exchangeable probes up to 5 mm measuring range
- ▶ Easy-to-use menu – even for user specific calibrations
- ▶ Broad variety of applications
- ▶ Wireless data transfer via USB

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Subject to change without notice!

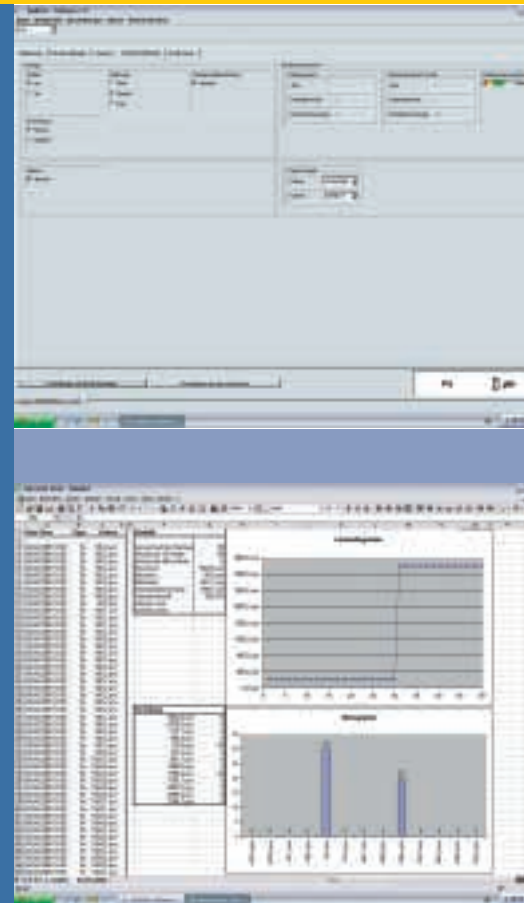
NEW



- ▶ **Elegant modern design for One-Hand-Operation**
  - ▶ **Modular system with exchangeable digital probes**
  - ▶ **Durable chassis for on-site operations**
  - ▶ **Basic and Premium version available**
- Display**
- ▶ Clear graphic display with high resolution
  - ▶ All languages can be displayed
  - ▶ Backlit display
  - ▶ Flip option by 180 degrees
- Keypad**
- ▶ State of the art keypad with illuminated keys
  - ▶ Easy to use menu
  - ▶ Two colour LED display to read measurement process, data transfer and monitoring of limits



Exchangeable Fe, NFe and dual probes



Screenshots

- ▶ Wireless bi-directional data transfer between gauge and PC via USB
- ▶ Automatic identification of gauges, including transfer of data and settings
- ▶ Easy configuration of all major functions of the QuaNix®8500 on the PC
- ▶ Simultaneous operation and administration of multiple QuaNix®8500 gauges
- ▶ All languages installable via editor (including gauge software)
- ▶ Downloadable software updates via Internet
- ▶ Online measurements
- ▶ OnScreen Help
- ▶ Easy export of readings into Excel for statistical functions (data and graphics)
- ▶ **QuaNix®8500** Software searches for existing Excel version on the PC and starts it before data transfer automatically

Menu Structure

QuaNix®

8500 Basic

8500 Premium

Technical Data

|                                                              |                                                                          |                                                                                                   | 8500 Basic | 8500 Premium |
|--------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------|--------------|
| <b>Measuring Mode ▶</b>                                      | Substrate Selection                                                      | Fe/NFe - Fe - NFe<br>Combined Measurement                                                         | ●          | ●            |
|                                                              | Measurement Type                                                         | Single Measurement<br>Continuous Measurement                                                      | ●          | ●            |
|                                                              | Upper-/Lower Limit<br>Averaging                                          |                                                                                                   | ●          | ●            |
| <b>Data Memory ▶</b><br>(* max. 2000 measurements per batch) | Readings                                                                 |                                                                                                   | up to 100  | up to 13000* |
|                                                              | Number of Batches<br>Batch name - Info - Upper-/lower limit              |                                                                                                   | 1          | 999          |
| <b>Statistics ▶</b>                                          | Mean/Standard Deviation/Maximum/<br>Minimum - also for the Batch/Batches |                                                                                                   | ●          | ●            |
| <b>Calibration ▶</b>                                         | Number of Custom Calibration (one-point/two-point)<br>Average Zero       |                                                                                                   | 1          | 100          |
| <b>Setup ▶</b>                                               | Display                                                                  | Unit: μm/mil<br>Resolution: Coarse/Normal/Fine<br>Backlight: Auto/OFF<br>Orientation: Normal/Flip | ●          | ●            |
|                                                              | Wireless Interface: ON/OFF                                               |                                                                                                   | ●          | ●            |
|                                                              | Display System Info                                                      |                                                                                                   | ●          | ●            |
|                                                              | Language: up to 3                                                        |                                                                                                   | ●          | ●            |
|                                                              | Buzzer: On/OFF                                                           |                                                                                                   | ●          | ●            |
|                                                              | Date/Time                                                                |                                                                                                   | ●          | ●            |

|                                                                                                                                  |                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fe-Probe ▶</b>                                                                                                                | Measurements on iron and steel substrate                                                                                                                                                                                              |
| <b>NFe-Probe ▶</b>                                                                                                               | Measurements on non-magnetic metal substrates, such as aluminum, zinc, copper, brass, stainless steel                                                                                                                                 |
| <b>Range ▶</b>                                                                                                                   | see specification of probes                                                                                                                                                                                                           |
| <b>Resolution ▶</b>                                                                                                              | 0,1 μm                      0 to 99,9 μm                      0.01 mil                      0 to 9.99 mil                                                                                                                             |
|                                                                                                                                  | 1 μm                        100 bis 999 μm                      0.1 mil                      10 to 100 mil                                                                                                                            |
| <b>Accuracy ▶</b><br>(* of reading)                                                                                              | 0,01 mm                      ≥ 1,00 mm                      1 mil                      > 100 mil                                                                                                                                      |
|                                                                                                                                  | (factory calibration on zero reference plates supplied with the gauge)<br>± (1 μm + 2%*)                      0 bis 2000 μm<br>± (0.04 mil + 2%*)                      0 to 80 mil<br>± 3,5%*                      > 2000 μm (80 mil) |
| <i>With the one-point or two-point calibration the accuracy can still be improved using the optionally available test shims.</i> |                                                                                                                                                                                                                                       |
| <b>Minimum Area ▶</b>                                                                                                            | Fe-Probe 20 x 20 mm <sup>2</sup> (0.8" x 0.8")                      NFe-Probe 20 x 20 mm <sup>2</sup> (0.8" x 0.8")                                                                                                                   |
| <b>Minimum Curvature ▶</b>                                                                                                       | convex 5 mm (0.2")                      concave 30 mm (1.2")                                                                                                                                                                          |
| <b>Minimum Substrate Thickness ▶</b>                                                                                             | Fe-Probe 0,2 mm (8 mil)                      NFe-Probe 0,05 mm (2 mil)                                                                                                                                                                |
| <b>Interface ▶</b>                                                                                                               | wireless 2.4 GHz, range max. 10 m (30ft) in undisturbed environment                                                                                                                                                                   |
| <b>Temperature Range</b>                                                                                                         | <b>Storage</b> -10°C to 60°C (14°F to 140°F) <b>Operation</b> 0°C to 50°C (32°F to 122°F)                                                                                                                                             |
| <b>Power Supply ▶</b>                                                                                                            | 2 x batteries (AA) 1.5V Alkali, or 2 x rechargeable batteries (AA) 1.2V                                                                                                                                                               |
| <b>Dimensions ▶</b>                                                                                                              | 124 mm x 67 mm x 33 mm ( 4.9" x 2.6" x 1.3")                                                                                                                                                                                          |
| <b>Weight ▶</b>                                                                                                                  | ca. 120 g (4.3 oz) gauge with batteries and probe                                                                                                                                                                                     |