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NAUMETRICS.

premium measuring instruments

ElektroPhysik

Messgeräte für Oberflächentechnik • Surface Testing Instruments

# Coating Thickness Measurement with Wireless Sensor and App

# SmarTest

**The latest mode of measuring!**

- Wireless sensor for coating thickness measurement
- SmarTest App turns your smartphone or tablet into a measuring device
- Always stay on top of information with an updated app

## Smart Sensors – now also available in the wireless version

SmarTest is the new concept of coating thickness measurement. A wireless sensor and an APP for smart phones and tablets are all that is required for reliable determination of the coating thickness. Readings are taken with the small sensor, which can fit in any pocket and then transferred to the APP via Bluetooth.

## SmarTest – the evaluation APP

The APP itself offers a clear display of current measuring value, statistical evaluation of readings taken, data memory in files, two-point calibration and export of complete batches as CSV format. Send your measuring data to any recipient by e-mail using the functionality of your smart phone or tablet.

## SmarTest

# The modern way of measuring coating thickness

### SmarTest Sensor – practical and versatile

SmarTest is a most flexible solution: It can also be supplied in other combinations with any of the SIDSP®-sensors of the MiniTest 700 series to cover a wide field of different applications.

Long battery life: for up to 8 hours in continuous operation. Readings exceeding the set limits are indicated on the sensors's green/red LED. The dual Bluetooth module ensures a long operating time in modern devices thanks to the Bluetooth low energy mode.

### Standard Scope of Delivery

- SmarTest
- Calibration set with calibration foils and reference zero test plate(s)
- USB charger with mini-B USB cable
- Operating manual
- Manufacturer's certificate
- Storage case

## Technical Data

| | SmarTest F 1.5 | SmarTest FN 1.5 | |
|---|---|---|---|
| **Measuring range** | 0 ... 1.5 mm | F-range: 0 ... 1.5 mm / N-range: 0 ... 0.7 mm | |
| **Measuring procedure** | Magnetic induction | Magnetic induction / eddy current | |
| **Signal processing** | Sensor-integrated digital 32-bit signal processing (SIDSP®) | | |
| **Measuring uncertainty** | ± (1 µm + 0.75 % of reading) | | |
| **Repeatability** | ± (0.5 µm + 0.5 % of reading) | | |
| **Low range resolution** | 0.05 µm | | |
| **Smallest curvature radius, convex** | 1.0 mm | | |
| **Smallest curvature radius, concave** | 7.5 mm | | |
| **Smallest measuring surface** | ø 5 mm | | |
| **Smallest substrate thickness** | 0.3 mm | 0.3 mm | 40 µm |
| **Interfaces** | Bluetooth 4.0 / Bluetooth Smart, range up to 10 m / Mini-USB connector for charging and power supply, data interface | | |
| **Operating temperature** | – 10 °C ... + 60 °C | | |
| **Storage temperature** | – 20 °C ... + 70 °C | | |
| **Power supply** | LiFePO battery / operating time approx. 8 hrs continuous operation | | |
| **Norms** | DIN EN ISO 1461, 2064, 2178, 2360, 2808, 3882, ASTM B 244, B 499, D7091, E 376 | | |
| **Dimensions / weight** | ø 16 x 125 mm / 60 g | | |

## SmarTest App Functions

| | SmarTest F 1.5 | SmarTest FN 1.5 |
|---|---|---|
| **Operation system** | as of Android 4.1 and iOS 9.0 | |
| **Measuring units** | Metric / mils switchable | |
| **Calibration modi** | Factory calibration, zero point and 2-point calibration | |
| **Statistics** | Number of measuring values, minimum, maximum, mean value, standard deviation | |
| **Storage of measured values** | Storage of measured values in CSV file format | |

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