

Advancing with Technology **ElektroPhysik**

Coating Thickness Measurement with Wireless Sensor and App



SmarTest

- 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

The latest mode of measuring.

SmarTest

ElektroPhysik

Messgeräte für Oberflächentechnik • Surface Testing Instruments

The modern way of measuring coating thickness

SIDSP®-Sensors – now also available in the wireless version

Comfortable Apps can now turn smart phones and tablets into effective evaluation and measuring devices. The new SmarTest concept consisting of an app and a wireless sensor offers the perfect solution for measuring coating thickness with the help of smart phones and tablets.

The SmarTest version of SIDSP®-sensors to measure coating thickness combines exceptional precision in measuring and resistance to interference with the advantages of the modern wireless technology. The digitally generated readings on the sensor are relayed by Bluetooth to your smart phone or tablet. The SmarTest App functions as a device for evaluating and thus replaces a conventional coating thickness gauge.

SmarTest App – the App for evaluation

The App functions include a clear display of current measuring value, statistical evaluation, storage of measuring values in files, 2-point calibration, measuring unit metric/imperial switchover and export of the series of measurement in the CSV format. All the functionalities of a smart phone are available for data transfer. For instance, you have the ease of sending your measuring data to any receiver by email. The intelligent SmarTest sensor is made to fit any jacket pocket. In combination with smart

phones or tablets this forms an ultra modern full-set for experts on site to measure coating thickness.

SmarTest Sensor – practical and versatile

Long battery life: the sensor equipped with the LiFePo battery can function for up to 8 hours in continuous operation. Readings exceeding the set limits are indicated on the sensors's green/red LED. SmarTest functions on old smart phone models as well as on the latest ones. The dual Bluetooth module ensures a long operating time in modern devices thanks to the Bluetooth low energy mode.

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.

Standard Scope of Delivery

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

Technical Data	SmarTest F 2.6	SmarTest FN 2.6	
Measuring range	0 ... 2.6 mm	F-range: 0 ... 2.6 mm / N-range: 0 ... 1.3 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	1.5 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 range	-10 °C ... +60 °C		
Storage temperature range	-20 °C ... +70 °C		
Power supply	LiFePO ₄ 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			
Operation system	as of Android 4.1		
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 the CSV file format		