

# ElektroPhysik

## Short Instructions

for

# SmarTest

## Wireless Coating Thickness Sensor

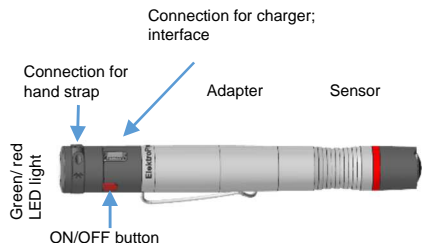
### Scope of Delivery

- 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
- Hand strap

### Using the Product

#### **Charging the SmarTest Unit**

SmarTest comes with a lithium-ion battery. Prior to first use, the battery must be charged using the USB charger and the Micro USB cable supplied with the gauge.

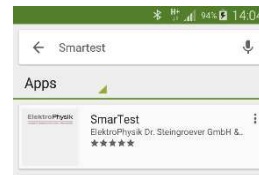


#### **Installing the SmarTest APP via “Google Play Store” on your Mobile Device**

Use a QR code reader to scan the below QR code. The SmarTest App will be shown in the “Google Play Store”. Select “Install”.

As an alternative, you can select “Play Store” on the Apps screen of your mobile device.

Enter “SmarTest” in the keyword search. Then select the SmarTest App from the list and press “install”.



#### **Connecting SmarTest to your Mobile Device**

The Bluetooth connection from the SmarTest to your mobile device (smartphone, tablet) must be established once.

Switch on the SmarTest. Press ON/OFF-key until the Green LED lights up and the LED starts flashing alternately between green and red.

Select “Settings” from the Apps screen of your mobile device followed by „Bluetooth ON“. Activate Bluetooth, e.g. by sliding the Bluetooth switch to the right. Then select “scan”. Recognized devices will be listed accordingly. Select your SmarTest device from the list for connecting, e.g. S131334 (S+Serial number).

No Bluetooth authorization will be required. SmarTest is now connected to your mobile device and shown on the list of “Paired devices”. SmarTest is now ready for use.

#### **How to take Readings:**

Switch on the SmarTest. The LED starts flashing alternately between green and red.

Select “SmarTest” from the Apps screen to open the SmarTest App. Your mobile device will automatically connect to the SmarTest wireless sensor via Bluetooth. The green SmarTest LED starts flashing at intervals of 3 seconds.



Note: Make sure to switch on the SmarTest wireless sensor within 30 seconds after the SmarTest App has opened, otherwise the SmartTest App will close automatically.

To start coating thickness measurement, place the SmarTest sensor onto the measuring sample. Once the sensor is in contact with the sample, the green SmarTest LED lights up for 0.5 seconds and the reading is shown on the SmarTest App of your mobile device.

For further details regarding calibration, for instance, please refer to the instructions provided by the SmarTest App. Just click the “?” icon of your SmarTest App to go to the instructions accordingly.

### Switching OFF the SmarTest wireless Sensor and close the SmarTest App

Press the ON/OFF button of the SmarTest sensor and hold for about 2 seconds until the red LED lights up. This action will also close down the SmarTest App. As an alternative, you can also close down the App via the menu item “Exit app”. This action will also switch off the SmarTest sensor. The red LED will light up for about 0.5 seconds to confirm the switch-off.

### LED Status Indication

Action / Status	LED Indication
Switch ON/OFF (Press button for about 2 sec.).	Green LED lights up for about 0.5 seconds.
SmarTest switched ON, no connection to mobile device / SmarTest App.	Green/ Red flashing alternately for 1 min, SmarTest switches OFF.

**Action / Status**  
SmarTest is switched ON, connection to mobile device/ SmarTest-App established.

Taking readings. No limit settings.

Taking readings, limits have been set.

No connection between SmarTest-Adapter and SIDSP® sensor.

Charging

Switching OFF

**LED Indication**  
Green LED flashing at intervals of 3 seconds.

Green LED lights up for about 0.5 seconds.

Green LED lights up for about 0.5 sec. during acquisition of readings: readings are within the set limits.

Red LED lights up for about 0.5 sec: Readings are off the set limits.

At switch ON:  
Red LED flashing quickly, green LED flashing at 2 second intervals.  
During operation:  
Red LED flashing quickly, green LED lights up 4 times followed by a 4 seconds pause.

Red LED oscillating once per sec.: Batteries are being charged:  
Green LED oscillating: Batteries fully charged.

When switching OFF, the red LED lights up for about 2 seconds.

### Declaration of Conformity

This is to confirm that the SmarTest Wireless Coating Thickness Sensor conforms to the health and safety requirements of 2004/108/ EC guidelines (electromagnetic compatibility).

### Technical Specifications

Operating system of the SmarTest App	Android 4.1 and upwards
Interfaces	Bluetooth 4.0 / Bluetooth Smart, range up to 10 m Micro USB socket for battery charge and power supply, data interface
Indicator light	Green and red LED
Norms and standards	DIN EN ISO 1461, 2064, 2178, 2360, 2808, 3882, ASTM B 244, B 499, D7091, E 376
Operating temperature	10°C to 50°C
Storage temperature	-20°C to 70°C
Power supply	LiFePO4 battery/ approx. 8 hours life time in continuous service
Dimensions / weight	ø 16 x 125 mm / 60 g