

elcometer® 456 Quick Guide

Congratulations on selecting perhaps the most advanced hand held coating thickness gauge on the market today. This Quick Guide will help you get started, but does not provide you with the complete instructions. Please refer to your instruction book to explore the full features of your new gauge.

Getting Started

Batteries – to insert the batteries, open the battery case and insert as shown




Connecting and disconnecting the Probe - Align the keyway and push home, the connector will lock automatically. When the probe is in place, there will be some movement in the connection – this is normal and avoids damage during operation. To release the probe, grasp the knurled section and pull gently away from the gauge. To connect the PINIP™, align the keyway, push in and tighten the metal ring, to release, loosen the metal ring and remove.




NOTE: To ensure correct transfer of data from the probe and detection of a new probe, the gauge must be switched off when separate and PINIP™ probes are fitted.



Using your Elcometer 456

Switch ON – All gauges can be switched on by pressing down the  key. In the case of the Integral (internal) probe version, the gauge will also automatically switch on when you place the probe onto the surface.



Switch OFF – your gauge can be switched off by pressing the  key for 3 seconds. The gauge can also be set to automatically switch off after 1-10 minutes of inactivity – see your instruction book for further information

The Softkeys – your Elcometer 456 is operated using the 4 softkeys at the top of the keypad. Each softkey relates to the action indicated on the screen directly above the softkey.

Calibrating your gauge (on smooth surfaces)





In order to obtain accurate readings you must first calibrate your gauge. Press the **CAL** softkey to begin the calibration adjustment process, and following the instructions displayed on your gauge:

- Place your probe onto a known thickness – either a calibration foil (shim) or coated standard.

NOTE: For the most accurate calibration, the value of this thickness should be at or above the thickness you wish to measure, which has been placed on an uncoated sample you wish to measure



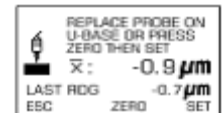
- Once the reading has been taken, lift the probe from the surface and then either adjust the reading on the screen to the thickness value, using the  and  softkeys, or take additional readings on the same thickness - allowing for a more accurate calibration to be made – before adjusting the value.



- Place your probe on the uncoated base / substrate



- Once the reading has been taken, lift the probe from the surface and then either press the **ZERO** softkey, followed by the **SET** softkey or take additional readings – allowing for a more accurate calibration to be made – before pressing the **ZERO** softkey, followed by the **SET** softkey.



NOTE: Your gauge can be calibrated specifically to handle several different methods described in National and International Standards, together with different substrate profiles. See your instruction book for more information.

