



Simplifies Coating Thickness Measurement

The EC-555 series uses both eddy current and magnetic induction principles. The device identifies the substrate types and switches the mode to simplify the measurement process. The readings can be sent to your laptop using a USB cable. Sharing the readings to your mobile via Bluetooth is also possible.

PRODUCT DATA SHEET



Main Features

- * EC-555 comes with the ruby probe.
- * The EC-555 series has a 2-inch color screen.
- * Its resolution is up to $0.1\mu\text{m}$.
- * The device's measurement range is between $0-2000\mu\text{m}$.
- * It records the coating thickness and can send it to the computer.
- * Three batteries, an F/N probe, a USB cable, and five foils accompany this device.
- * You can adjust the volume of the sound.
- * EC-555 supports zero and multipoint calibration.
- * It shuts down automatically when not in use.
- * EC-555 can send its readings to the mobile app.
- * It can send its reading by Bluetooth connectivity.
- * The display supports auto-rotation.
- * The backlight is adjustable.
- * It displays the data as a bar or curve chart.
- * It is a portable and durable device.
- * EC-555 can measure the thickness of non-conductive coatings on any metallic surface.
- * It can measure the coating thickness of nonferromagnetic metal coatings on ferromagnetic metals like iron and nickel.



Model	EC-555
Probe type	Internal probe
Measuring principle	Fe: Magnetic induction ; NFe: Eddy currents
Measuring range	0~2000μm
Accuracy	±(3%+1μm)
Resolution	0.1μm(0~100μm) ; 1μm(>100μm)
Unit	μm, mm, mils, inch
Calibration	Zero calibration ; Multi-point calibration
Statistic	Number of data, maximum, minimum, mean, sample standard deviation, coefficient of variation, number below limit, number above limit
Chart	Curve, bar chart or trend chart
Readings memory	10X13X10 measurement data
Probe trigger mode	Mechanical trigger, trigger force: 0.4~0.8N
Minimum curvature radius	Convex 5mm ; Concave 25mm
Minimum measuring area	Diameter 15mm
Minimum thickness of substrate	Fe: 0.30mm NFe: 0.05mm
Maximum measuring rate	2 readings / s
Display	2 inch color screen
Bluetooth & APP	Support
Operation environment	Temperature: -10~50°C; Humidity: 20~90%RH (Non-condensing)
Storage environment	Temperature: -20~60°C ; Humidity: 20~90%RH (Non-condensing)
Power supply	3 pcs 1.5V AAA alkaline batteries ; 3 pcs 1.2V AAA rechargeable batteries
Protection class	IP40
Size	133mmX68mmX30mm
Case material	ABS
Weight	About 90g (No battery)
Standards / Certificates	CE, ROHS, ISO 2178, 2360, GB / T 4956-2003, 4957-2003, JJG-818-2005
Warranty	12 months