

### EC-555 / EC-555S / EC-555E / EC-555SE

EC-555 series coating thickness gauge is applied to measure the thickness of non-conductive coatings on metal surfaces non-destructively, as well as the thickness of non-ferromagnetic metal coatings on ferromagnetic metals (such as iron, nickel and cobalt). Specific applications are including the measuring of the thickness of iron, stainless steel surface paint or galvanized coating, aluminum, copper surface paint or plastic film, etc.



- Double principles in one, ruby probe
- 2 inch color screen
- With Bluetooth and mobile APP function
- Car or general mode
- Resolution is up to 0.1 $\mu$ m
- Accuracy of  $\pm(2\%+1\mu\text{m})$  (EC-555S / SE)
- Measuring range is 0~2000 $\mu$ m
- Statistical analysis of data
- Standardized menu interface
- Display a curve, bar chart or trend chart
- Record data and transfer to PC
- Support zero calibration and multi-point calibration
- External probe optional (EC-555E / SE)
- Maximum measuring rate : 2 readings / s
- Auto rotation
- Backlight adjustable
- Sound volume adjustable
- Auto shut-down
- Low battery protection

### EC-555

Device with internal F/N probe, CD, manual, 3 batteries, USB cable, ferrous and non-ferrous metal, 5 foils.

Part no.: 1000100003 (FN2.0)

### EC-555S

Device with internal F/N probe, CD, manual, 3 batteries, USB cable, ferrous and non-ferrous metal, 5 foils.

Part no.: 1000100002 (FN2.0)

### EC-555E

Device with external F/N probe, CD, manual, 3 batteries, USB cable, ferrous and non-ferrous metal, 5 foils.

Part no.: 1000100008(FN2.0)

### EC-555SE

Device with separated F/N probe, CD, manual, 3 batteries, USB cable, ferrous and non-ferrous metal, 5 foils.

Part no.: 1000100009 (FN2.0)



Model	EC-555	EC-555S	EC-555E	EC-555SE
Probe type	Internal probe		External probe	External separated probe
Measuring principle	Fe: Magnetic induction ; NFe: Eddy currents			
Measuring range	0~2000 $\mu$ m			
Accuracy	$\pm(3\%+1\mu\text{m})$	$\pm(2\%+1\mu\text{m})$	$\pm(3\%+1\mu\text{m})$	$\pm(2\%+1\mu\text{m})$
Resolution	0.1 $\mu$ m(0~100 $\mu$ m) ; 1 $\mu$ m(>100 $\mu$ m)			
Unit	$\mu$ m, 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	Fe: 0.20mm NFe: 0.03mm	Fe: 0.30mm NFe: 0.05mm	Fe: 0.20mm NFe: 0.03mm
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	133X68X30mm	Housing: 133X68X30mm; Cable: $\Phi$ 3.5X1000mm Probe: $\Phi$ 17X67mm		
Case material	ABS	Housing: ABS; Probe: stainless steel		
Weight	About 90g (No battery)	About 145g (No battery)		
Standards / Certificates	CE, ROHS, ISO 2178, 2360, GB / T 4956-2003, 4957-2003, JJG-818-2005			
Warranty	12 months			

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