

DESCRIPTION:

EC-770S thickness gauge can measure the thickness of non-conductive cladding on metal surfaces, as well as non-ferromagnetic metal cladding on the surface of ferromagnetic metals (e.g., iron, nickel, cobalt). Specific uses include: measuring the thickness of painted or galvanized layers on the surfaces of iron and stainless steel, and measuring the thickness of painted or plastic films on the surfaces of aluminum and copper.

EC-770S has a built-in integrated probe of magnetic induction and eddy current, with a measurement range of 0~2000 μ m and a measurement accuracy of $\pm(2\%+1\mu\text{m})$, and the resolution is up to 0.1 μ m.

Placing probe on the surface of measured object, pulling down trigger, gauge can automatically identify properties, and then LCD will show thickness.

The EC-770S is highly resistant to interference and can be used normally in more complex electromagnetic field environments. The EC-770S features a streamlined menu and data display interface that displays average, maximum and minimum values, as well as indicators and alarms for data overruns. In addition, the unit contains a large memory. During measurement, the device can count and record measurement results. The recorded data can be transferred to a PC via USB cable.

The EC-770SE is an external probe version of the EC-770S model, which has a probe wire length of approximately 1 meter. Compared to the EC-770S, the EC-770SE is better suited for work in tight spaces or assembly lines.

FEATURES:

- Ruby wear probes
- Supports USB data transfer
- Accuracy $\pm(2\%+1\mu\text{m})$
- Resolution 0.1 μ m
- Range 0~2000 μ m
- LCD shows maximum, minimum, average and number
- Red backlight over-limit alarm
- Standardized menu interface
- Supports user calibration
- Reaction time less than 0.5 seconds
- Manual rotating screen
- Automatic shutdown
- Battery protection

APPLICATION:

- Thickness test of automobile paint
- Electroplating
- Film thickness detection
- Hardware parts processing



EC-770S



External Probe

NOTICES:

- Avoid sun exposure.
- Avoid direct contact with corrosive chemicals.
- Avoid falling.

WARNING:

- Do not disassemble without permission!
- Prevent strong electricity, static electricity impact!

SPECIFICATION:

Model	EC-770S	EC-770SE
Probe position	Internal	External
Measuring principle	Fe: Magnetic induction; NFe: Eddy currents	
Measuring range	0~2000μm	
Accuracy	±(2%+1μm)	
Resolution	0.1μm(0~99.9μm); 1μm(≥100μm)	
Unit	μm, mm, mil	
Calibration	Zero calibration , point calibration	
Statistics	Number of Data, Maximum Value, Minimum Value, Mean Value, Standard Variance	
USB data transfer	Support	
Storage	2000 measured data	
Probe trigger force	0.3~0.8N	
Minimum curvature radius	Convex 5mm; Concave 25mm	
Minimum measuring area	Diameter 10mm	
Minimum thickness of substrate	Fe: 0.20mm; NFe: 0.03mm	
Response time	<0.5s	
Display	Dot matrix LCD	
Operating environment	Temperature: -10~+50℃; Humidity: 20~90%RH(Non-condensing)	
Storage environment	Temperature: -10~60℃; Humidity: 20~90%RH (Non-condensing)	
Power supply	2 pcs AAA 1.5V alkaline batteries / 2 pcs AAA 1.2V rechargeable batteries	
Protection class	IP40	
Size	114*53*25mm	Machine: 114*53*25mm Cable: Φ3.5*1000mm Probe: Φ17*67mm
Shell material	ABS	Machine: ABS Probe: Stainless steel
Weight	About 80g(No battery)	About 140g(No battery)