

DESCRIPTION:

EC-910 thickness gauge can nondestructive measure the thickness of non-conductive coating on metal surface and non-ferromagnetic metal coating on ferromagnetic metal (such as iron, nickel and cobalt) surface. It is mainly used to measure the thickness of paint, anticorrosive coating, fire proof layer, enamel or ceramic protective layer on iron, stainless steel, aluminum or copper surface.

EC-910 can be matched with a variety of easy to replace the separation probe, its maximum range of 20000 μ m(20mm), resolution of up to 1 μ m. When measuring, the user only needs to quickly fit the probe end to the surface of the object under test. In the process of the probe shrinking into the instrument, the thickness of the metal surface coating can be measured by the instrument.

EC-910 has a streamlined menu and data display interface to display both average, minimum and maximum values. In addition, the instrument contains large capacity memory. In the process of measurement, the instrument can count and record the measurement results. Data recorded can be transmitted to the computer through USB data lines.

FEATURES:

- Ruby wear-resistant probe
- Separate digital probes
- Resolution up to 1 μ m
- 10000 μ m range (F10 probe)
- Support for continuous measurement
- Display maximum, minimum, average
- Red backlight over-limit alarm
- Standardized menu interface
- USB data transmission
- Support user calibration
- Maximum measurement speed 2 readings/sec
- Display with backlight
- Automatic shut-down
- Battery protection



EC-910

F10 probe

APPLICATION:

- Metal Anti-rust treatment
- Thermal insulation treatment of metal pipes
- Hardware processing

NOTICES:

- Avoid sun exposure.
- Avoid direct touch corrosive chemicals.
- Be careful of falling.

WARNING:

- It is forbidden to disassemble without permission!
- Strictly prevent strong electricity and static shock!

FUNCTION AND SPECIFICATION:

Mainframe Type	EC-910
Measuring units	μm, mm, mils
User calibration methodology	Zero calibration, point calibration
Measurement mode	Single, continuous
Statistics	Number of data, maximum, minimum, mean, standard variance
USB data transmission	Support
Storage capacity	2000 measurements
Display	Dot display
Operating environment	Temperature: -10~+50℃; Humidity: 20~90%RH (non-condensing)
Storage environment	Temperature: -20~+60℃; Humidity: 20~90%RH (non-condensing)
Power supply	3 pcs AAA 1.5V alkaline batteries; 3 pcs AAA 1.2V rechargeable batteries
Protection class	IP40
Dimensions	174*73*40mm
Shell material	ABS
Weight	About 200g (without batteries)

Probe Type	F10(default collocation)	F20	N10	N20
Measuring principles	Electromagnetic induction		Eddy current effect	
Applicable substrate	Magnetic metal such as iron, nickel, cobalt or martensitic stainless steel		Non-magnetic metals such as aluminium, copper, gold or austenitic stainless steel	
Resolution	1μm (0~5000μm); 10μm(≥5000μm)			
Scope of measurement	0~10000mm	0~20000mm	0~10000mm	0~20000mm
Typical Precision	After calibration ±(1%+5μm)	---	---	
Maximum measuring speed	2 readings/sec			
Minimum radius of curvature of substrate	Convex 5mm; Concave 16mm	---	---	
Minimum substrate thickness	2mm		0.05mm	
Minimum measurement area	Diameter 40mm		---	
Operating environment	Temperature: -10~+50℃ ; Humidity: 20~90%RH (non-condensing)			
Storage environment	Temperature: -20~+60℃ ; Humidity: 20~90%RH (non-condensing)			
Protection class	IP40			
Dimensions	Line: Φ3.5*1000mm Probe: Φ28*58mm	---	---	---
Shell material	POM			
Weight	About 96g	---	---	---