Coating Thickness Gauge

EC-900

Version: 1.4

DESCRIPTION:

EC-900 thickness gauge can measure the thickness of non-conductive coating on metal surface and non-ferromagnetic metal coating on ferromagnetic metal (such as iron, nickel, cobalt, etc.) surface, the specific uses include measuring the thickness of iron, stainless steel surface paint or galvanized layer, measuring the thickness of aluminum, copper surface paint or plastic film, etc.

The EC-900 can be matched with a variety of separate probes for user replacement. The maximum range is 5000μm, the instrument has a very strong anti-interference ability, and it can work in a more complex electromagnetic field environment. When measuring, the user only needs to quickly fit the probe end to the surface of the object under test. In the process of shrinking the probe into the instrument, the instrument can automatically distinguish the properties of the substrate and measure the thickness of the coating layer.

EC-900 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**
- **A maximum range of 5000μm**
- **Resolution up to 0.1μm**
- **Display maximum, minimum and 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-900

Probe

APPLICATION:

- **Testing of automotive paint thickness**
- **Electroplating**
- **Ship manufacturing**
- **Metal Anti-rust Treatment**
- **Film thickness detection**
- **Hardware processing**

Coating Thickness Gauge

EC-900

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-900**
Measuring units	μm, mm, mil
User calibration methodology	Zero calibration, point calibration
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 Ni-MH batteries
Protection class	IP40
Dimensions	174*73*40mm
Shell material	ABS
Weight	About 200g (without batteries)

Probe Type	**FN2.0**	**FN3.0**	**F5.0N3.0**(recommendation)
Measuring principles	Fe: electromagnetic induction; NFe: eddy current effect		
Resolution	0.1μm (0~99.9μm); 1μm (≥100μm)		
Scope of measurement	0~2000μm	0~3000μm	Fe: 0~5000μm NFe: 0~3000μm
Precision	±(2% reading+1μm) (≤2000μm) ±(3% reading+2μm) (2001~3000μm) ±(5% reading+2μm) (>3000μm)		
Probe trigger force	0.3~0.8N		
Maximum measuring speed	2 readings/sec		
Minimum radius of curvature of substrate	Convex 5mm; Concave 25mm		
Minimum measurement area	Diameter 10mm		
Minimum substrate thickness	Fe: 0.20mm; NFe: 0.03mm		
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: Φ17*67mm		
Shell material	Stainless steel		
Weight	About 60g		