



PRODUCT DATA SHEET



1m Φ 3.5mm



67mm

Φ 17mm



Professional Coating Thickness Gauge EC-770X / EC-770XE

It can non-destructively measure the thickness of non-conductive coating on metal surface and non-ferromagnetic metal coating on ferromagnetic metal surface. EC-770X thickness gauge has a built-in precision probe integrating magnetic induction and eddy current effect. EC-770XE has an external probe.

- Ruby probe
- High resolution $0.1 \mu\text{m}$
- $5000 \mu\text{m}$ Massive Process
- Display maximum, minimum, average
- Red backlight alarm
- Standardized menu interface
- Recording data and transmitting computers
- Support for user calibration
- Maximum measurement speed 2 readings/sec
- Manual rotating screen
- Display with backlight
- Automatic shutdown
- Battery protection

EC-770X

Device with internal probe, CD, manual, 2 batteries, USB cable, ferrous and non-ferrous metal, 5 foils.

EC-770XE

Device with external probe, CD, manual, 2 batteries, USB cable, ferrous and non-ferrous metal, 5 foils.

| Model | EC-770X | EC-770XE |
|--|--|--|
| Probe position | Internal | External |
| Measuring principle | Fe: magnetic induction; NFe: eddy current effect | |
| Measuring range | Fe: 0~5000μm; NFe: 0~3000 Other measurements can be customized | |
| Accuracy | ±(2%+1μm) | |
| Resolution | 0.1μm (0~99.9μm); 1μm (≥100μm) | |
| Unit | μm, mm, mils | |
| Calibration | Zero calibration, point calibration | |
| Statistics | Number of data, maximum, minimum, mean, standard variance | |
| USB data transmission | Support | |
| Storage capacity | 2000 measurements | |
| Probe triggering force | 0.3~0.8N | |
| Minimum radius of curvature of substrate | Convex 5mm Concave 25mm | |
| Minimum measurement area | Diameter 10mm | |
| Minimum substrate thickness | Fe: 0.20mm; NFe: 0.03mm | |
| Maximum measured speed | 2 readings / sec | |
| Display | Dot Display | |
| Operating 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 | 2 AAA 1.5V alkaline batteries 2 AAA 1.2V rechargeable batteries | |
| Protection class | IP40 | |
| Dimensions | 113X53X25mm | Host:113X53X25mm Line:Φ3.5X1000mm Probe:Φ17X67mm |
| Material | ABS | Host:ABS Probe:stainless steel |
| Weight | About 80g (without batteries) | About 140g (without batteries) |
| Standard | CE, ROHS, ISO 2178, 2360, GB/T 4956-2003, 4957-2003, JJG-818-2005 | |