

## DIGITAL COATING THICKNESS GAUGES

### MECHANICAL TOOLS & EQUIPMENTS

### EC-456 series Handheld Digital Thickness Gauge

Thickness gauges can measure the thickness of non-conductive coatings on metal surfaces and non-ferromagnetic metals on ferromagnetic metals such as iron, nickel, cobalt, etc., without damaging, including measuring thickness of the steel Stainless steel surface color or slatted floor shifters measure the thickness of aluminum, copper surface paint or plastic film Model with built-in probe built-in magnetic induction and eddy current effect measuring range is 0~5000μm. It can high anti-interference and can work in complex electromagnetic fields. This can distinguish the properties of the surface. And automatically measure the thickness of the coating, can result measurements to the APP in real time via Bluetooth. In addition, with a large memory card data will be saved automatically and can send recordings to computer by USB. It can display various graph and statistics Indication and alarm of over-threshold situations. This is integrates AI technology and adds the function of environment self-adjustment and also protection with a simple menu interface on a large color display. For EC-456E model (seperated probe ) more suitable for work in tight spaces or on assembly lines compared to the EC-456 model.



**EC-456E**  
(Internal Probe)

### Features

- Standard Measuring range 0~2000μm (Other ranges can be customized upto 5000μm)
- Double principle in one, ruby probe
- 2.4 inch color screen
- With Bluetooth and APP function
- Car or general mode
- High resolution 0.1μm
- High accuracy  $\pm(2\%+1\mu\text{m})$
- Statistic analysis of data
- Standardized menu interface
- Display a curve, bar chart or trend chart
- USB to computer
- Support zero calibration and multi-point calibration
- External probe is optional (EC-456E)
- The maximum speed is 2 times/s
- Self-adaptive back light brightness
- Automatic rotation screen
- Sound volume adjustable
- Red LED alarm, blue and green LED status reminder
- Auto power-off & Low power protective
- With comply CE, ROHS, ISO 2178, 2360, GB/T 4956-2003, 4957-2003, JJG-818-2005

**Package set  
for EC-456**



**EC-456E**  
(External Probe)

### Ordering Information

- User Manual
- Zero plate for Fe and NFe 1 set (2 plates)
- Calibration set (5 sheets)
- Battery 1 pack
- Hand carry case
- Seperate probe (for EC-456E-series)

### Specifications

MODEL	EC-456-2	EC-456-3	EC-456-5	EC-456E-2	EC-456E-3	EC-456E-5
Probe type	Internal probe			External probe		
Measuring Principle	Fe: Magnetic induction and NFe: eddy currents					
Measurement range	0 ~ 2000μm	0 ~ 3000μm	0 ~ 5000μm	0 ~ 2000μm	0 ~ 3000μm	0 ~ 5000μm
Accuracy	±(2%+1μm)					
Resolution	0.1μm (0 ~ 100μm); 1μm (>100μm)					
Unit	μm, mm, mils, inch					
Calibration	Zero calibration and multi-point calibration					
Statistic	Number of readings, Max, Min, Mean, sample standard deviation, coefficient of variation, number below limit, number above limit					
Chart	Curve, bar chart or trend chart					
Storage	10*13*10 measurement data					
Maximum measuring rate	2 reading/sec					
Bluetooth & APP	Support					
Display	2.4 inch color screen					
Power supply	2 pcs 1.5V AA alkaline batteries					
Operation environment	Temperature: -10 ~ +50℃, Humidity: 20 ~ 90%RH (non-condensation)					
Storage environment	Temperature: -20 ~ +60℃, Humidity: 20 ~ 90%RH (non-condensation)					
Protection class	IP40					
Weight	137g (No batteries)			137g (No battery) Probe: 63g Housing: 146*76*32mm.		
Size	146*76*32mm			Wire: dia 3.5*10000mm. Probe: dia 17*67mm.		