

# TIME<sup>®</sup> 2510

## COATING THICKNESS GAUGE

### Standard Delivery

●Main unit	1
●Substrate	2
●Calibration foil	1
●AAA 1.5V battery	2
●TIME certificate	1
●Warranty card	1
●Instruction manual	1

### Optional Accessory

- Connecting cable
- Dataview

### Features

- Two principle of operation are adopted: magnetic induction (ferrous) and eddy current (non-ferrous) to take non-destructive measurements
- Zero point calibration and two-point calibration to correct the system error of the probe
- Features two working modes: DIRECT and BATCH & two measuring ways: CONTINUE and SINGLE
- Statistics include the mean, maximum, minimum, test numbers and standard deviation.
- Automatic recognition of substrate.
- Memory of 600 data
- Deletion of current data, calibrated data, limit data and all data stored.
- Low battery indication and error alarm
- Buzz during operation for indication
- Auto or manual shutdown



### Technical Specification

Probe types	F	N	
Working principle	Magnetic induction	Eddy current	
Measuring range	0-1250 μm	0-1250 μm, 0-40μm (for chrome plate on copper)	
Minimum resolution	0.1μm		
Tolerance	Zero point calibration	$\pm(3\%H+1) \mu\text{m}$	$\pm(3\%H+1.5) \mu\text{m}$
		H means the thickness of tested piece	
	Two points calibration	$\pm\{(1-3)\%H+1\} \mu\text{m}$	$\pm\{(1-3)\%H+1.5\} \mu\text{m}$
		H means the thickness of tested piece	
Measuring condition	Min. curvature radius	Convexity 1.5 mm	Convexity 3 mm
	Min. area diameter	Φ7 mm	Φ5 mm
	Critical thickness of the base	0.5 mm	0.3 mm
Operating environment	Temperature: 0°C - 40°C		
	Humidity: 20%-90%		
	No strong magnetic field		
Power	2 pcs AAA 1.5 V battery		
Dimension	110 x 50 x 23 (mm)		
Weight	100 g		