COATING THICKNESS GAUGE TT210





Features:

- Two measuring methods: magnetic induction (F) and eddy current (N) (Refer to page AAA for details)
- Magnetic induction (F) method is used to measure the thickness of non-magnetic coating on ferrous metal
- Eddy current (N) method is used to measure the thickness of nonconducting coating on non-ferrous materials
- Automatic recognition of substrate
- Automatic selection of measuring methods
- 5 statistical ways: Mean values / Max. values / Min. values / testing numbers.(No.) / standard deviations (S.DeV)
- Upper-lower limit setting and sound alarm
- Data output to printer TA230 or PC by RS232
- 500 readings can be stored
- 2 measuring modes: continuous / single
- 2 stop ways: Manual/automatic

Technical Specification

Probe types		F	N	
Measuring methods		magnetic induction	eddy current	
Measuring range		0 to 1250µm	0 to 1250µm 0 to 40µm (for chromeplate on copper)	
Displa	y resolution	0.1µm		
	One point	±(3%H+1)	± (3%H+1.5)	
Tolerance	calibration	H means the thickness of tested piece		
Toleidrice	Two points calibration	±[(1~3)%H+1]	±[(1~3)%H+1.5]	
		H means the thickness of tested piece		
	Min. curvature radius (mm)	Convexity 1.5	Convexity 3	
Measuring condition	Min. testing area diameter (mm)	φ7	φ5	
	Critical thickness of substrate (mm)	0.5	0.3	
Power supply		Battery AAA 1.5V (2pcs)		
Working Temperature		0-40°C		
Dimensions		110mm × 50mm × 23mm		
Weight		100g		

Standard Delivery

• Main unit	1
 Calibration foil set 	1
• Substrate	2
• AAA 1.5V battery	1
• Waist pack for main unit	1
 Instruction manual 	1
• TIME certificate	1
Warranty card	1

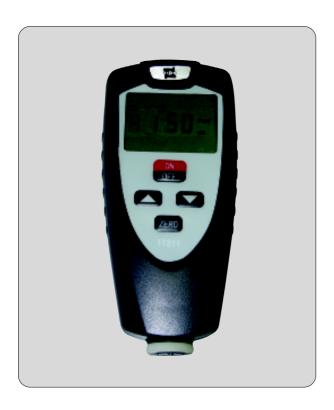
Optional Accessory

- Printer TA230 (see page 47)
- Connecting cable





COATING THICKNESS GAUGE TT211



Features:

- Economical model with F probe integrated
- Single point measurement mode
- Easy calibration on zero point
- 3 kinds of adjustable resolution for different application
- High speed data collection
- Automatically switch off
- Easy conversion between mm and inch

Technical Specification

Probe types		F				
Measuring methods		magnetic induction				
Measuring range		0 to 1250µm				
Display resolution		1µm 5µm		10µm		
Talayanaa		$\pm (3\%H+1)$	± (3%H+1.5)	±(3%H+10)		
	Tolerance		H means the thickness of tested piece			
	Min. curvature radius (mm)	Convexity 1.5				
Measuring condition	Min. testing area diameter (mm)	φ7				
	Critical thickness of substrate (mm)	0.5				
Power supply		Battery AAA (2pcs)				
Working Temperature		0-40°C				
Dimensions		110mm × 50mm × 23mm				
Weight		100g				

Standard Delivery

- Main unit
 Substrate
 Battery
 Waist pack for main unit
 Instruction manual
 TIME certificate
 1
- Warranty card

COATING THICKNESS GAUGE TT220/230





Features:

- TT220: integrated probe F
- TT230: integrated probe N
- 2 measurement modes: continuous / single
- 5 statistical ways: Mean values / Max. values / Min. values / testing numbers.(No.) / standard deviations (\$.DeV)
- 15 measurement readings stored
- low battery indication
- Automatically switch off
- Real time or batch printing with TA230 printer

Technical Specification

		Π220	TT230	
Probe types		F	N	
Measuring methods		magnetic induction	eddy current	
Measuring range		0 to 1250µm		
Display resolution		1µm(0.1µm when thickness is less than 10µm)		
	One point calibration	±(3%H+1)	± (3%H+1.5)	
Tolerance:		H means the thickness of tested piece		
Tolelance :	Two points calibration	±[(1~3)%H+1]	±[(1~3)%H+1.5]	
		H means the thickness of tested piece		
	Min. curvature radius (mm)	Convexity 1.5	Convexity 3	
Measuring condition	Min. testing area diameter (mm)	φ7	φ5	
	Critical thickness of substrate(mm)	0.5	0.3	
Power supply		Rechargeable NiMH battery (2pcs)		
Working Temperature		0-40°C		
Dimensions		150mm × 53mm × 22mm		
Weight		150g		

Standard Delivery

Main unit	1
Charger	1
 Calibration foil set 	1
• substrate	1
 Protection pocket 	1
 Instruction manual 	1
• TIME certificate	1

Optional Accessory

Warranty card

- Printer TA230 (see page 47)
- Connecting cable





COATING THICKNESS GAUGE TT260



Features:

- Two measuring methods: magnetic induction (F) and eddy current (N)
- 6 types of probes are available for various applications
- 2 measurement modes: continuous / single
- 5 statistical ways: Mean values / Max. values / Min. values / testing numbers.(No.) / standard deviations (S.DeV)
- memory up to 495 readings
- Direct testing mode and block statistics mode (APPL/BATCH)
- Direct print out of statistical values
- Dataview for connecting with PC is available
- Low battery indication
- 2 switch off modes: manual and auto

Technical Specification

Measuring range			
Probes available			
Tolerance	See table in the next page		
Minimum resolution			
Measuring condition			
Operation language	English		
Standards	DIN, ISO, ASTM,BS		
Calibration	Zero and foil calibration		
Statistics	Number of measurements, mean, standard deviation, maximum and minimum of 3000 readings		
Data memory	495 readings		
Limits	Adjustable with alarm		
Interface	RS-232		
Working temperature	0-40°C		
power supply	Nicd rechargeable batteries 1.25V		
Dimensions	270mm × 86mm × 47mm		
Weight	530g		

Standard Delivery

Main unit	1
• Probe	1
Charger	1
 Calibration foil 	1
substrate	1
 Instruction manual 	1
• TIME certificate	1
 Warranty card 	1

Optional Accessory

- 6 optional probes
- PC software Dataview
- Calibration foils in different thickness
- Connecting cable





OPTIONAL PROBES AND APPLICATION GUIDE



Optional probes and technical specification

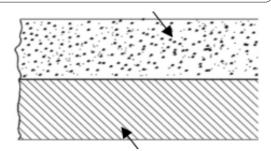
Probe model F400		F1	F1/90°	F10	N1	CN02	
Operating principle		Magnetic induction			Eddy current		
Measuring range(µm)		0-400	0-1250		0-10000	0 to 1250µm 0 to 40µm (for chromeplate on copper)	10~200
Low range	e resolution(µm)		0.1		10	0.1	1
Accuracy	One-point calibration(µm)		±(3%H+1)		±(3%H+10)	±(3%H+1.5)	±(3%H+1)
	Two-point calibration(µm)	±[(1~3)%H+0.7]	±[(1~3)%H+1]		±[(1~3)%H+10]	±[(1~3)%H+1.5]	-
Measuring	Min curvature of the min area (mm)	Convex 1	1.5	Flatten	10	3	Flatten
conditions	Diameter of the	Φ3	φ7		φ40	φ5	φ7
	Critical thickness of substrate (mm) 0.2 0.5		5	2	0.3	unlimited	

Application of two measuring methods

Magnetic induction (F)

Coating: non-magnetic material Substrate (base): magnetic material

Any non-magnetic materials such as gold, copper, zinc, tin, lead, resin, rubber, glass and so on.



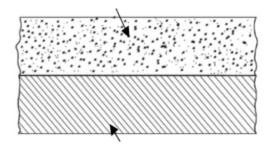
Any magnetic materials such iron, steel, cobalt and nickel.

Eddy current (N)

Coating: non-conductors

Substrate (base): non-magnetic metals

Any non-conductors such as painting, synthetic resin, rubber, glass and so on.



Any non-magnetic metals such as brass, copper, aluminum and so on.