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		
IOIeIGIICe	Two points	±[(1~3)%H+1]	±[(1~3)%H+1.5]	
	calibration	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	
Pow	er supply	Battery AAA 1.5V (2pcs)		
Working	Temperature	0-40°C		
Din	nensions	110mm × 50mm × 23mm		
Weight		100g		

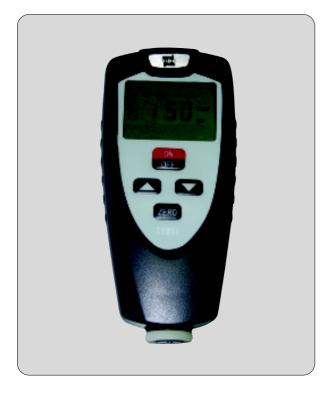
Standard Delivery				
• Main unit	1			
 Calibration foil set 	1			
• Substrate	2			
• AAA 1.5V battery	1			
• Waist pack for main unit	1			
 Instruction manual 	1			
• TIME certificate	1			
 Warranty card 	1			

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
- \bullet Easy conversion between mm and inch

Technical Specification

Probe types		F				
Measuring methods		magnetic induction				
Measu	Measuring range		0 to 1250µm			
Displa	Display resolution		5µm	10µm		
Tal	erance	±(3%H+1)	± (3%H+1.5)	±(3%H+10)		
10	leidrice	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				
Pow	Power supply		Battery AAA (2pcs)			
Working	Working Temperature		0-40°C			
Din	Dimensions		110mm × 50mm × 23mm			
V	Weight		100g			

Standard Delivery				
• Main unit	1			
• Substrate	1			
• Battery	1			
• Waist pack for main unit	1			
 Instruction manual 	1			

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- TIME certificate
- Warranty card

COATING THICKNESS GAUGE TT220/230



Features:

- \bullet 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	Ν	
Measuring r	nethods	magnetic induction	eddy current	
Measuring r	ange	0 to 1250µm		
Display reso	lution	$1\mu m (0.1\mu m$ when thickness is less than $10\mu m)$		
	One point	±(3%H+1)	\pm (3%H+1.5)	
Tolerance :	calibration	H means the thickness of tested piece		
IOIEIGIICE .	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 suppl	y	Rechargeable NiMH battery (2pcs)		
Working Ten	nperature	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
 Warranty card 	1

Optional Accessory

- Printer TA230 (see page 47)
- Connecting cable



COATING THICKNESS GAUGE TT260



Features:

- \bullet 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

		1	
Measuring range		Standard Delivery	
Probes available			
Tolerance	See table in the next page	 Main unit Probe 	1
Minimum resolution		Charger	1
		Calibration foil	1
Measuring condition		 substrate 	1
Operation language	English	 Instruction manual 	1
Standards	DIN, ISO, ASTM,BS	• TIME certificate	1
Calibration	Zero and foil calibration	Warranty card	1
Statistics	Number of measurements, mean, standard deviation, maximum and minimum of 3000 readings	Optional Accessory • 6 optional probes • PC software Dataview	
Data memory	495 readings	Calibration foils in different	t thickness
Limits	Adjustable with alarm	 Connecting cable 	
Interface	R\$-232		
Working temperature	0-40°C		\bigcirc
power supply	Nicd rechargeable batteries 1.25V		
Dimensions	270mm × 86mm × 47mm		
Weight	530g		-

OPTIONAL PROBES AND APPLICATION GUIDE

Optional probes and technical specification

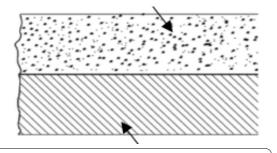
Prot	pe model	F400	Fl	F1/90°	F10	N1	CN02
Operating principle		Magnetic induction			Eddy current		
Measurir	ng range(µm)	0-400 0-1250		0-10000	0 to 1250µm 0 to 40µm (for chromeplate on copper)	10~200	
Low range	e resolution(µm)		0.1		10	0.1	1
Accuracy	One-point calibration(µm)		±(3%H+1)		±(3%H+10)	±(3%H+1.5)	±(3%H+1)
, loodidoy	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
	Diameter of the	Φ3	φ7		φ40	φ5	φ7
	Critical thickness of substrate (mm)	0.2	0.	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.

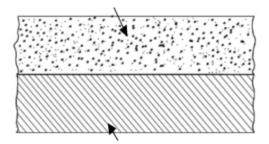


Any magnetic materials such iron, steel, cobalt and nickel.

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.