

TIME[®] 2601

COATIn G THICKn ESS GAUGE

Standard Delivery

●Main unit	1
●Probe	1
●Substrate	1
●Calibration foil	1
●Charger	1
●Printing paper	1
●TIME certificate	1
●Warranty card	1
●Instruction manual	1



Technical Specification

Measuring range	
Probe available	
Tolerance	see table in page 46
Minimum resolution	
Measuring condition	
Standards	DIn ,ISO,ASTM,BS
Calibration	Zero and foil calibration
Interface	RS232
Statistic	n umber of measurement, mean, standard deviation, maximum and minimum
Data memory	640 readings
Limits	Adjustable with alarm
Power	n iMH rechargeable battery
Operating environment	Temperature: 0~40
	Humidity: 20%~90%
	n o strong magnetic field
Dimensions (mm)	230×86×47

Features

- Two principles of operation are adapted: magnetic induction (ferrous) and eddy current (non-ferrous) to take non-destructive measurements
- 6 types of probes are available for different applications
- Features two working modes: DIRECT and BATCH& two measuring ways: CO n TIn UE and SIn GLE
- Statistics include the mean, maximum, minimum, test numbers and standard deviation.
- Memory of 640 data
- Two calibration methods for better correction
- Integrated with printer to print the statistics values if needed
- Low battery indication and error alarm
- Backlight for the screen
- Auto or manual shutdown
- Conform to the standards of DIn , ISO, ASTMBS.

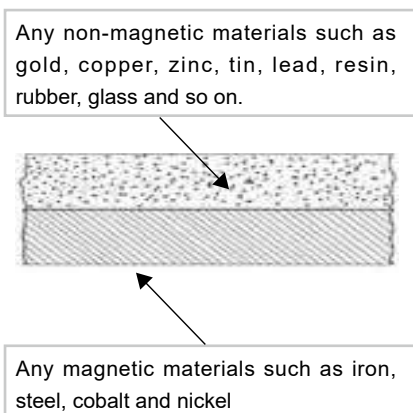
Optional Probes and Application Guide

Probe model		F400	F1	F1/90°	F10	n 1	Cn 02
Operating principle		Magnetic induction				Eddy current	
Measuring range (µm)		0-400	0-1250		0-10000	0 to 1250 µm 0 to 40µm (for chrome plate on copper)	10~200
Low range resolution (µm)		0.1	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 conditions	Min curvature of the min area (mm)	Convex: 1	1.5	Flatten or Pipe(R>7mm)	10	3	Flatten
	Diameter of the min area (mm)	φ3	φ7		φ40	φ5	φ7
	Critical thickness of substrate (mm)	0.2	0.5		2	0.3	unlimited

Application of two measuring methods

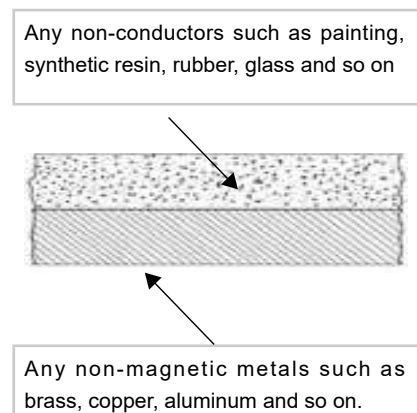
Magnetic induction (F)

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



Eddy current (N)

- Coating: non-conductors
- Substrate (base): non-magnetic metals



Reference Table for Probe selection

Substrate	Coatings	n on-magnetic coatings (Organic materials like paint, enamel, plastic)		n on-magnetic metal coatings (Chromium, Zinc, Copper, Tin, Silver, etc.)	
		Thickness of coating less than 100µm	Thickness of coating more than 100µm	Thickness of coating less than 100µm	Thickness of coating more than 100µm
Steel, iron and other magnetic metal	Diameter of testing area is more than 30mm	F1 probe: 0~1250 µm F400 probe: 0~400µm	F1 probe: 0~1250 µm F10 probe: 0~10mm	F1probe: 0~1250µm F400probe: 0~400 µm	F1 probe: 0~1250 F10probe: 0~10mm
	Diameter of testing are is less than 30mm	F400 probe:0~400µm	F1 probe: 0~1250 µm F400 probe: 0~400µm	F400probe: 0~400µm	F1 probe: 0~1250µm F400 probe: 0~400
Copper, Brass, Aluminum, Zinc, Tin and other metal	Diameter of testing area is more than 5mm	n 1 probe:0~1250µm		n 1 probe:0~40µm (For chrome plate on copper only)	
nonmetallic substrate	Diameter of testing are is more than 7mm	-	-	Cn 02 Probe:10~200µm (Mainly for testing copper foil)	