

Coating Thickness Gauge TT260



Product Information

Product info:• 2 Measuring modes: continuous/single

- 2 Shutdown modes: manual/automatic
- Wide measuring range with 5 probes available
- Direct testing mode and block statistics mode (APPL/BATCH)
- Direct print out of statistical values
- Dataview to connect with PC
- 495 data can be stored

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Technical specifications

Measuring range	0-1250 μ m with standard probe F1.N1 (10000mm max)
Probes available	5 probes available for F (ferrous: on steel/iron) and N (non-ferrous metals)
Tolerance	F1: $\pm(3\%H+1)$ N1: $\pm(3\%H+1.5)$ (H: 实际厚度)
Resolution	Alphanumeric with 4 large digits
Operation language	English
Standards	DIN, ISO, ASTM,BS
Min. measuring area	F1:(standard probe)
Min. curvature radius	convex:3mm, concave:50mm
Min. substrate thickness	type F1: 0.5mm, type N1: 50mm
Calibration	Zero and foil calibration
Statistics	Number of measurements, mean, standard deviation, maximum and minimum of 3000 readings
Data memory	495 measuring data
Limits	Adjustable with acoustic alarm
Interface	RS-232
Operating temperature	0-40°C
Power supply	Nicd rechargeable batteries 1.25V
Dimensions	270mm \times 86mm \times 47mm
Weight	Approx. 530g

Standard delivery

- Main unit 1
- Probe F1 or N1 1
- Charger 1
- Calibration foils 1
- Instruction manual 1
- TIME certificate 1
- Warranty card 1
- Carrying case 1

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Optional accessories

- 5 probes for different applications
- PC software Dataview for online and data transfer
- Calibration foils in various thickness
- Communication cable



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Coating Thickness Gauge Optional Probes

Product Information

Product
info:

Optional probes technical parameters

Probe model		F400	F1	F1/90	F5	F10
Operating principle		Magnetic induction				
Measuring range (μm)		0-400	0-1250		0-5000	0-10000
Low range resolution (μm)		0.1	0		1	10
Accuracy	One-point calibration (μm)	$\pm(3\%H+1)$			$\pm(3\%H+5)$	$\pm(3\%H+10)$
	Two-point calibration (μm)	$\pm[(1-3\%)+0.7]$	$\pm[(1-3)H\%+1]$		$\pm(1-3\%H+5)$	$\pm[(1-3)\%H+10]$
Measuring conditions	Min curvature of the min area (mm)	Convex 1	1.5	Flatten	5	10
	Diameter of the min area (mm)	$\varnothing 3$	$\varnothing 7$	$\varnothing 7$	$\varnothing 20$	$\varnothing 40$
	Critical thickness of substrate (mm)	0.2	0.5	0.5	1	2

Probe model		N400	N1	N1/90	CN02	N10
Operating principle		Eddy current				
Measuring range (μm)		0-400 (Chrome on copper 0-40)	0-1250		10-200	0-10000
Low range resolution (μm)		0.1	0.1		1	10
Accuracy	One-point calibration (μm)	$\pm(3\%H+0.7)$	$\pm(3\%H+1.5)$		$\pm(3\%H+1)$	$\pm(3\%H+2.5)$
	Two-point calibration (μm)	$\pm[(1-3)\%H+0.7]$	$\pm[(1-3)\%H+1.5]$			$\pm[(1-3)\%H+10]$
Measuring conditions	Min curvature of the min area (mm)	Convex 1	3	Flatten	Only flatten	25
	Diameter of the min area (mm)	$\varnothing 4$	$\varnothing 5$	$\varnothing 5$	$\varnothing 7$	$\varnothing 50$
	Critical thickness of substrate (mm)	0.3	0.3	0.5	No limit	50 μm aluminum foil

Table 1 for probe selection reference

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Substrate \ Coating		Non-magnetic coating of organic material (such as painting, finishes, enamel, porcelain enamel, plastic, anodization and etc.)			
		Coating thickness $\leq 100\mu\text{m}$		Coating thickness $> 100\mu\text{m}$	
Magnetic metal such as iron, steel and etc.	Measured area Dia. $> 30\text{mm}$	Probe F1 0-1250 μm	Probe F400 0-400 μm	Probe F1 0-1250 μm	Probe F5 0-5mm Probe F10 0-10mm
	Measured area Dia. $< 30\text{mm}$	Probe F400 0-400 μm		Probe F1 0-1250 μm	Probe F400 0-400 μm
Non-ferrous metal such as copper, aluminum, brass, zinc, tin and etc	Measured area Dia. $> 10\text{mm}$	Probe N1 0-1250 μm	Probe N400 0-400 μm	Probe N1 0-1250 μm	Probe N10 0-10mm Probe N400 0-400 μm
	Measured area Dia. $< 10\text{mm}$	Probe N1 0-1250 μm	Probe N400 0-400 μm	Probe N1 0-1250 μm	Probe N400 0-400 μm

Table 2 for probe selection reference

Substrate \ Coating		Non-magnetic non-ferrous metal coating (such as chrome, zinc, aluminum, copper, tin, silver and etc.)			
		Coating thickness $\leq 100\mu\text{m}$		Coating thickness $> 100\mu\text{m}$	
Magnetic metal such as iron, steel and etc.	Measured area Dia. $> 30\text{mm}$	Probe F1 0-1250 μm	Probe F400 0-400 μm	Probe F1 0-1250 μm	Probe F5 0-5mm Probe F10 0-10mm Probe F400 0-400 μm
	Measured area Dia. $< 30\text{mm}$	Probe F400 0-400 μm	Probe F1 0-1250 μm	Probe F1 0-1250 μm	Probe F400 0-400 μm
Non-ferrous metal such as copper, aluminum, brass, zinc, tin and etc	Measured area Dia. $> 10\text{mm}$	Only for chrome coating on copper Probe N1 0-1250 μm Probe N400 0-400 μm			
	Measured area Dia. $< 10\text{mm}$				
Non-metal such as plastic, printing circuit and etc.	Measured area is big	Probe CN02n 10-200 μm		Probe CN02 10-200 μm	