



## Coating Thickness Gauge

### Cpad T300

#### Portable coating thickness gauge is

designed for measuring the thickness of coating. The feature for this meter is fast, non-destructive and accurate.

Cpad Coating Thickness Gauge is applied in many areas, such as electroplating industry, corrosion protection, aerospace industry, automotive car industry, ship building industry, light industry and inspection, etc.

Cpad could meet your different demands by changing different probes. There are two measuring methods could be chosen, magnetic permeability method and eddy current method.

F type probe with magnetic method, can measure the magnetic metal (such as steel, iron, alloy steel and hard magnetic and non-magnetic) thickness of coating layer (such as zinc, aluminum, chromium, copper, rubber, paint etc.)

N probe can be measured by the eddy current method, the non ferromagnetic metal (such as copper, aluminum, zinc, tin and other) non conductive cover layer thickness and austenitic stainless steel (such as: plastic, rubber, paint, anodizing etc.).



#### Features :

- High accuracy (1%+1)
- Split design, strong applicability, measured value stability  
Short response time, fast measurement speed.
- 7 kinds of sensors (F400, F1, F1/90 °, F10, N400, N1, CN02) are available to meet customer needs, a variety of measurement

<b>Performance</b>	<b>Weight</b>	<b>Memory</b>
Measuring Range	300g	Thickness Values
F400: 0~400µm N400: 0~400µm F1: 0~1250µm F1/90: 0~1250µm N1: 0~1250µm F10: 0~10000µm CN02: 10~200µm	<b>Working Environment</b>	500data
<b>Accuracy</b>	Temperature : 0 °C ~50 °C Humidity: 20%~90%	Delete
F400、N400 Probe	<b>Operation</b>	All data within a single suspicious data / group
One point calibration: (2%+0.7)	Operation Mode	<b>Input/Output</b>
Two point calibration: ± (1%+0.7)	Direct testing & Group testing	Communication
F1、F1/90、N1、CN02 Probe	Measuring mode	USB
One point calibration: ± (2%+1)	Continuous measurement / single measurement	<b>Electronic Power</b>
Two point calibration: ± (1%+1)	Power Off	Battery
F10 Probe	Manual/Auto	Commercial NiMH / alkaline batteries 1.5V
One point calibration: ± (2%+10)	Operation Indecation	Power Indication
Two point calibration: ± (1%+10)	Musical tones for error	Low Voltage indication
<b>Calibration method</b>	<b>Signal Processing</b>	<b>Standard Package</b>
One point calibration / two point calibration / Basic Calibration	Limit of Threshold	Main body 1
<b>Resolution</b>	Auto alarm for values out of limit	Probe(N1 or F1) 1
0.1µm (0-99.9µm)	Signal Processing	Calibration foil set 5
1µm (over100µm)	The histogram can be used to analyze a batch of measurements	Base 1
	Statis Function	Manual 1
	(MEAN) / (S.DEV) / (No.) / (MAX) / (MIN)	<b>Optional Accesories</b>
		<b>Probe</b>
		F400/ N400/ F10/ CN02/ F1/90

Probe Mode		F400	F1	F1/90	F10	N400	N1	CN02			
Working Principle		Magenetic Method				Permeability		Eddy Current Method			
Mesuring range		0~400	0~1250	0~10000	0~400 ( Copper covered with chomium 0~40)	0~1250	10~200				
Resolution (µm)		0.1	0.1	10	0.1	0.1	1				
Tolera (µm)	One point calibration(µm)	± (3%H+0.7)	± (3%H+1)	± (3%H+10)	± (3%H+0.7)	± (3%H+1.5)	± (3%H+1)				
	Tne point calibration( m)	± (1%H+0.7)	± ((1%H+1)	± (1%H+10)	± (1%H+0.7)	± (1%H+1.5)	-----				
Meas	The minimum	凸	1	1.5	Straig	10	凸	1.5	3	Straig	Straight
uring Cond ition	radius of curvature(mm)				ht					ht	Only
	The minimum area diameter(mm)	φ3	φ7	φ7	φ4	φ4	φ4	φ5	φ5	φ7	
	The critical thickness of the matrix(mm)	0.2	0.5	0.5	2	0.3	0.3	0.3	0.3	Unlimited	

### Testing Probe Reference 1

Base \ Coating		Organic materials and other non metallic coating (such as: paint, paint, enamel, etc)	
		Cover thickness < 100µm	Cover thickness > 100µm
Such as magnetic metal iron, steel etc.	Measuring Area > 30mm	F400: 0~400µm F1 : 0~1250µm	F400 :0~400µm F1 :0~1250µm F10 :0~10mm
	Measuring Area < 30mm	F400: 0~400µm	F1 : 0~1250µm F400: 0~400µm
Such as copper, aluminum, tin etc.	Measuring Area > 10mm	N400 :0~400µm N1 :0~1250µm	N400 0~400µm N1 : 0~10mm
	Measuring Area < 10mm	N400 :0~400µm	N1 : 0~1250µm N400: 0~400µm

### Testing Probe Reference 2

Probe \ Coating		Non magnetic metal layer (such as: chromium, zinc, aluminum, copper, tin, silver, etc.)	
		Cover thickness < 100µm	Cover thickness < 100µm
Such as magnetic metal iron, steel etc.	Measuring Area > 30mm	F400: 0~400µm F1: 0~1250µm	F400: 0~400µm F1: 0~1250µm F10: 0~10mm
	Measuring Area < 30mm	F400: 0~400µm	F400: 0~400µm F1: 0~1250µm
Such as copper, aluminum, tin etc.	Measuring Area > 10mm	Only for copper plating N400: 0~40µm	-----
	Measuring Area < 10mm	-----	-----
Plastic, non metal base	Measuring Area > 7mm	CN02: 10~200µm	CN02: 10~200µm

### Testing Probe Reference 3

Mode	Cpad T200	Cpad T210	Cpad T220
Probe	F	N	N, F