Coating Thickness Gauge

Cpad T400

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.

The Bluetooth function reads and transmits data more clearly and conveniently. LCD display screen, reading data is more intuitive and clear

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.).

Feathers :

- High accuracy (1%+1)
- WIFI function
- 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

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Performance

Measuring Range

F400：0~400μm N400：0~400μm
F1：0~1250μm F1/90：0~1250μm
N1：0~1250μm F10：0~10000μm
CN02：10~200μm

Accuracy

F400、N400 Probe
One point calibration： (2%+0. 7)
Two point calibration： (1%+0. 7)
F1、F1/90、N1、CN02 Probe
One point calibration： (2%+1)
Two point calibration： (1%+1)
F10 Probe
One point calibration： (2%+10)
Two point calibration： (1%+10)

Calibration method

One point calibration / two point calibration / Basic Calibration

Resolution

Weight

260g

Working Environment

Temperature： 0 ℃ ~50 ℃
Humidity： 20%~90%

Operation

Operation Mode
Direct testing & Group testing
Measuring mode
Continuous measurement / single measurement
Power Off
Manual/Auto
Operation Indication
Musical tones for error

Signal Processing

Limit of Threshold
Auto alarm for values out of limit
Signal Processing
The histogram can be used to analyze a batch of measurements
Statistics Function
(MEAN) / (S.DEV) / (No.) / (MAX)

Memory

Thickness Values
500data
Delete
All data within a single suspicious data / group

Input/Output

Communication
USB/WIFI

Electronic Power

Battery
Commercial Ni MH /alkaline Dry battery AA 1.5V
Power Indication
Low Voltage indication

Standard Package

Main body 1
Probe(N1 or F1) 1
Calibration foil set 5
Base 1
Manual 1

Optional Accessories

Probe

Probe Mode		F400	F1	F1/90	F10	N400	N1	CN02
Working Principle		Magnetic Permeability Method				Eddy Current Method		
Measuring range		0～400	0～1250		0～10000	0～400 (Copper covered with chromium 0～40)	0～1250	10～200
Resolution (m)		0.1	0.1		10	0.1	0.1	1
Tolerate(m)	One point calibration(m)	±(3%H+0.7)	±(3%H+1)		±(3%H+10)	±(3%H+0.7)	±(3%H+1.5)	±(3%H+1)
	Two point calibration(m)	±(1%H+0.7)	±((1%H+1)		±(1%H+10)	±(1%H+0.7)	±1%H+1.5	--------
Meas	The minimum	Convex 1	1.5	Straight	10	Convex 1.5	3	Straight Straight
Using Condition	Radius of curvature(mm)			ht			ht	Only
	The minimum area diameter(mm)	3	7	7	4	4	5	5 7
	The critical thickness of the matrix(mm)	0.2	0.5	0.5	2	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 < 100 m	Cover thickness > 100 m
Such as magnetic metal iron, steel etc.	Measuring Area > 30mm	F400: 0～400 m F1 : 0～1250 m	F400 :0～400 m F1 :0～1250 m F10 :0～10mm
	Measuring Area < 30mm	F400: 0～400 m	F1 : 0～1250 m F400: 0～400 m
Such as, copper, aluminum,tin etc.	Measuring Area > 10mm	N400 :0～400 m N1 :0～1250 m	N400 0～400 m N1 : 0～10mm
	Measuring Area < 10mm	N400 :0～400 m	N1 : 0～1250 m N400: 0～400 m

Testing Probe Reference （2）

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