

HCT2610Coating Thickness Gauge



Product introduction

As a portable measuring instrument, the metal shell coating thickness gauge can measure coating and plating thickness quickly, without damage, and accurately. It has the advantages of wide measurement range, fast measurement speed, and high measurement accuracy. It can be used both in the laboratory and on engineering sites. By using different probes, a variety of measurement needs can be met. This instrument can be widely used in many testing fields such as manufacturing, metal processing industry, chemical industry, and commodity inspection. It is an essential instrument for material protection professionals.

Feature

- Full English interface operation, more convenient;
- This instrument uses two thickness measurement methods: magnetic and eddy current.
- Can be equipped with 10 types of probes F1, F10, N1
- Limits can be set: Automatic alarms for measured values outside the limits; and histograms can be used to analyze a batch of measured values; LCD display, backlight control can be switched on and off;
- With menu operation;
- It has an error prompt function and provides error prompts through screen display or beep sound;
- There are two shutdown modes: manual shutdown mode and automatic shutdown mode;
- Powered by lithium battery;
- Using international 9-pin socket;

Functional use

It can be used to measure the thickness of electroplating layers, paint layers, enamel layers, aluminum tiles, copper tiles, babbitt tiles, phosphate layers, paper, and can also be used to measure the thickness of hull paint and attachments to underwater structures. This instrument can be widely used in testing fields such as manufacturing, metal processing industry, chemical industry, and commodity inspection.

Technical Parameters

Measuring principle:	magnetic induction and eddy current
Probe connection method:	split wire connection (replaceable)
Measuring range:	0-1250um (depending on the probe)
Resolution:	0.1um (F1, N1 probe)
Indication accuracy:	$\pm(2\%H+1)\mu\text{m}$; H is the thickness of the coating being measured
Display method:	128*64 dot matrix LCD

Storage capacity:	can store 5 groups of measurement data (each group can have up to 100 measurement values)
Unit system:	metric (μ m), imperial (mil) can be freely converted
Working power:	3.7V
Charging voltage:	5V2A
Continuous working time:	more than 200 hours (without backlight)
Overall dimensions:	125*71*27mm (host)
Overall machine weight:	0.4KG
Statistical functions:	average value, maximum value, minimum value, number of tests, standard deviation
Working method:	direct method and group method
Measurement method:	continuous measurement method and single measurement method
Temperature:	-20 $^{\circ}$ C ~+50 $^{\circ}$ C (operating temperature), -30 $^{\circ}$ C ~+70 $^{\circ}$ C (storage temperature)
Humidity:	$\leq$ 90%RH
Environmental requirements:	The environment is free of strong vibrations, strong magnetic fields, corrosive media and severe dust.

Optional probe parameter table

Probe model	F400	F1	F1/90	F10	N1	CNI02
working principle	Magnetic induction				Eddy current	
Measuring range (μ m)	0-400	0-1250		0-10000	0-1250(Chrom e plated on copper0-40um)	10-200
low resolution(um)	0.1	0.1		10	0.1	1
Indication value error	One point calibration (um)	$\pm$ [3%H+1]		$\pm$ [3%H+10]	$\pm$ [3%H+1.5]	$\pm$ [3%H+1]

	Two-point calibration (um)	$\pm [(1 \sim 3)\%H + 0.7]$	$\pm [(1 \sim 3)\%H + 1]$		$\pm [(1 \sim 3)\%H + 10]$	$\pm [(1 \sim 3)\%H + 1.5]$	
	Minimum radius of curvature (mm)	convex 1	convex 1.5	Straight	10	3	Straight
Measurement conditions	The minimum area of the base Diameter(mm)	$\phi 3$	$\phi 7$	$\phi 7$	$\phi 40$	$\phi 5$	$\phi 7$
	Minimum critical thickness (mm)	0.2	0.5	0.5	2	0.3	Unlimited

Standard configuration

serial number	Name	quantity	note
1	Host	1 set	Independent research and development
2	Iron-based probe (FE)	1 piece	Independent research and development
3	Zero calibration base	1 piece	
4	Standard test piece	1 set	
5	Instrument box	1 piece	
6	Operation guide	1 piece	
7	Certificate	1 piece	
8	Warranty Card	1 piece	
9	USB data cable	1 piece	Optional

10	Aluminum based probe (NFE)	1 piece	Optional
11	Other probes		Optional

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