

T230 Through Coating Ultrasonic Thickness Gauge

Standard Configuration

Main Body	1
Standard Probe (5MHz,D10mm)	1
Couplant	1
ABS Case	1
Product Certificate	1
Warranty Card	1
Manual	1
1.5V AA size battery	2

Optional Configuration

Large diameter probe (2.5MHz)
Large range probe (2MHz)
Micro-diameter probe (7MHz)
High temperature probe (5MHz)



Introduction

Ultrasonic thickness gauge measuring with ultrasonic wave, is applicable for measuring the thickness of any material in which ultrasonic wave can be transmitted and reflected back from the other face, it can also measure through coated surfaces and eliminate the thickness of the paint using a dual element style transducer in echo-echo mode without remove the surface coating.

The gauge can provide quick and accurate measurement to various work pieces such as sheets of board and processing parts. Another important application of the gauge is to monitor various pipes and pressure vessels in production equipment, and monitor the thinning degree during using. It can be widely used in petroleum, chemical, metallurgy, shipping, aerospace, aviation and other fields.

Features

- Capable of performing measurements on a wide range of material, including metals, plastic, ceramics, composites, epoxies, glass and other ultrasonic wave well-conductive materials
- Can collocate variety different frequencies,wafer sizes of probes
- Sound velocity calibration function as a known thickness
- Coupling status indicator showing the coupling status
- EL backlight, and convenience to use under dark environment
- Have the battery indicator function, can real-time display the remaining power
- Auto sleep and auto power off function to conserve battery life
- Smart, portable,high reliability, suitable for bad,environment, resist to vibration, shock and electromagnetic interference

Technical Specification

Model	T230
Display	128 x 64 LCD with LED backlight
Measuring Range	(0.75~600)mm (Steel) Through Coating: 3-25mm
Velocity Range	Velocity Range: (1000~9999) m/s
Resolution	Resolution: 0.01mm
Measuring accuracy	± (0.5%H+0.04mm);H is thickness value
Measurement cycle	Single point measurement 6 times/per
Storage	40 values of saved data
Power Source	2pcs 1.5V AA size
USB Port	USB Port
Working Time	more than 50 hours (LED backlight off)
Thickness of test block	4mm
Outline Dimensions	145 x 74 x 32 mm
Weight	245g

Through coating measurement for gauging thickness of a painted object without removing the nonmetal coating

T240

Ultrasonic Thickness Gauge

Standard Configuration

Main body	1
Standard Probe	1
Couplant	1(empty)
Charger	1
USB cable	1
Product Certificate	1
Warranty Card	1
Manual	1



Introduction

Ultrasonic thickness gauge which can show the wave and thickness directly and accurately. The principle includes P-E(Pulse-Echo) and E-E(Echo-Echo). Under P-E principle, need to calibrate the probe before testing the thickness, whereas E-E principle, do not need to calibrate the probe before testing the thickness and also can through the coating. The accuracy can reach to ± 0.001 inch or ± 0.01 mm.

Suitable for measuring the thickness of metals (such as steel, cast iron, aluminum, copper, etc.), plastics, ceramics, glass, glass fibers and any other good conductors of ultrasonic waves

Features

- 3.5inch TFT color display, can set up the display color by user-defined
- Test the thickness through the coating on the surface:
Powerful through coating thickness function, only need to slightly process the coating surface to achieve easy thickness measurement
- Show A scan and thickness value simultaneously:
The user can directly see the ultrasonic signal waveform on the screen, which is convenient for verifying the measurement data and analyzing problems. The measured thickness value is displayed synchronously below the waveform,easy to see"
- Thickness measurement of ultra-thin parts:
- The thinnest measurement thickness can reach to 0.15mm
- Alarm mode can sound alarm according to the value which beyond the range of Min value and Max value

Technical Specification

Model	T240
Working principle	Ultrasound (PE/EE)
Testing range	P-E mode range: 0.15mm~400mm E-E mode range: 1mm~100mm
Display accuracy	0.001mm(> 100mm)/0.001mm(<100mm)
Measuring accuracy	$\pm (0.5\%H+0.001)$ mm
Velocity range	1000~9999m/s
Frequency bandwidths	0.5-30MHz
Display	3.5inch TFT color display
USB port	yes
Power supply	Rechargeable lithium battery
Working hours	about 5 hours
Size	165*82*30mm
Weight	250g(including the battery)

C330 Digital Coating Thickness Gauge

Standard Configuration

Main unit	1	Operating manual	1
Probe (integrated)	1	Warranty card	1
Calibration piece	5	Instrument case	1
Zeroing plate	2		
AA battery (Non-aviation)	2		



Introduction

It can measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel). It also can measure the thickness of non-conductive coatings layers covered on conductive substrate. Such as: (enamel, rubber paint, vanish, plastic anodic-oxide layer) covered on conductive substrate (aluminum, brass, zinc and nonmagnetic stainless steel).

Features

- Durable ruby probe, more wear and precise
- One key and one hand operating, (Zeroing, calibration and measurement)
- Integrated probe, easy to carry
- Wide range of application: manufacturing, metal processing industry, commodity inspection, automotive coating industries etc.



Technical Specification

Model	C330
Measuring range	0-1250μm
Working principle	Magnetic & Eddy
Substrate	FE & NFE base - dual use
Resolution	0.1um/0.1mil
Min. measuring area	6mm
Accuracy	±(1-3%+1um)
Min. curvature	Convex radius: 1.5mm Concave radius: 25mm
Min thickness of substrate	Fe: 0.4mm NFE: 0.4mm
Working temperature	0°C ~ 40°C
Power	AA battery 2 pcs
Weight	70g
Size	130mm x 72mm x 29mm



C320

Coating Thickness Gauge

Standard Configuration

Main unit	1	Operating manual	1
Probe (Fe or NFe)	1	Warranty card	1
Calibration piece	5	Instrument case	1
Zeroing plate	1		



Introduction

With different probe: it can measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel). It also can measure the thickness of non-conductive coatings layers covered on conductive substrate. Such as: (enamel, rubber, paint, vanish, plastic anodic-oxide layer) covered on conductive substrate (aluminum, brass, zinc and nonmagnetic stainless steel)

Features

- Various probes optional, probe auto matching
- Durable ruby probe, more wear and precise
- Full metal shell design, sturdy, portable, high reliability
- Alarm function when overrun the settable limiting range
- Five statistics values [MEAN, MAX, MIN, NO., S.DEV] higher measurement accuracy
- Large storage, easy to delete single or multiple saved values
- PC software optional, convenient the data transmission, analysis, printing etc
- Two calibration methods for better correction
- Low battery indication and error alarm

Optional Accessories

Probe	Measuring range (μm)	Operating principle
F1	0~1250	Magnetic
N1	0~1250	Eddy current
F10	0~10000	Magnetic

Technical Specification

Model	C320
Measuring range	0-1250μm, depends on probes, MAX 10mm for the probe F10.
Working principle	Magnetic & Eddy
Substrate	FE / NFE base
Resolution	0.1μm
Display	128x64 LCD with backlight
Accuracy	±2%H+1um Note: H is thickness reading
Memory	5 files x 100 values
Unit switch	Metric (μm) Imperial (mil)
Working temperature	Operation Temp. : -10~50°C Storage Temp. : -30~70°C
Working mode	direct & APPL
Measurement method	CONTINUE/SINGLE
Storage capacity	500 measurements
Connecting to computer	can directly connect computer output data
Power	AA battery 2pcs
Weight	340g
Size	126 x 67 x 32mm

C310

Coating Thickness Gauge

Standard Configuration

Main unit	1	Operating manual	1
Probe (Fe or NFe)	1	Warranty card	1
Calibration piece	5	Instrument case	1
Zeroing plate	1		



Introduction

With different probe: DANA-C310 can measure the thickness of non-magnetic coating layers covered on magnetic substrate. Such as: non-magnetic (aluminum, chrome, copper, enamel, rubber, paint) covered on magnetic substrate (steel, alloy and magnetic stainless steel). It also can measure the thickness of non-conductive coatings layers covered on conductive substrate. Such as: (enamel, rubber, paint, vanish, plastic anodic-oxide layer) covered on conductive substrate (aluminum, brass, zinc and nonmagnetic stainless steel).

Features

- Multi type probe can be used (F1, N1, N10)
- 2 measuring modes are available: continuing measuring mode (CONTINUE) and single measuring mode (SINGLE)
- 2 operation modes are available: direct mode (DIRECT) and batch mode (A-B)
- 5 statistic values: mean value(MEAN), max. Value(MAX), min. Value(MIN), numbers of measuring(NO.), standard deviation(S.DEV)
- 2 methods can be used to calibrate the gauge, and the system error of the probe can be corrected by use of basic calibrating method
- Storage function: 500 measuring values can be stored
- Deletion function: delete the single questionable data occurring in measuring, as well as all of the data in memory area to perform the new measuring
- Limit can be set: capable of alarming automatically for measuring values out of limit; and a batch of measuring values can be analyzed via histogram
- Buzzing indication in the course of operation

Technical Specification

Model	C310
Measuring range	0-1250μm, depends on probes, MAX 10mm for the probe F10.
Working principle	Magnetic & Eddy
Substrate	FE / NFE base
Resolution	0.1μm
Display	128x64 LCD with backlight
Accuracy	±2%H+1μm Note: H is thickness reading
Memory	5 files x 100 values
Unit switch	Metric (μm) Imperial (mil)
Working temperature	Operation Temp.: -10~50°C Storage Temp.: -30~70°C
Operating environment	Humidity: 20%-90% No strong magnetism field
Power	AA battery 2pcs
Weight	340g
Size	147 x 74 x 31mm