



NDT expert

# Solid (Beijing) Technology Co., Ltd.



## Ultrasonic Thickness Gauge

Upad X400

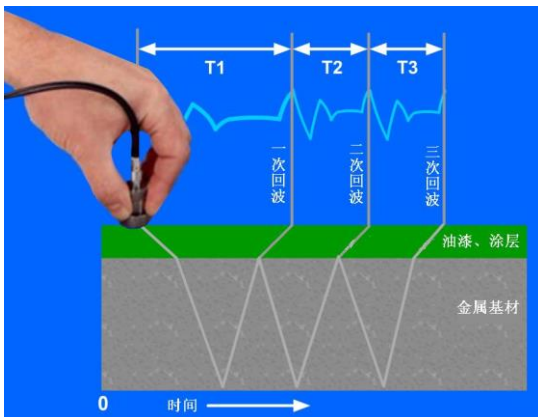
### X 400 : High Performance, Low Price

Upad X 400 Ultrasonic Thickness Gauge will be the best choice for accomplishing measurement. It fits many kinds of metal, such as steel, cast steel, aluminum, plastic ,China glass, glass fiber and any other good conductors of ultrasonic.

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

Advanced Auto Probe Zeroing Calibration and Echo-Echo mode are applied on Upad X 400. Taking more accurate measuring result and higher production rate to you.

Upad X 400 is creative, it will supply a superior experience for users.



The indicator of eliminating coating

No 0	MAX	10.00
File 0		
EE		10.00 mm
↑ 300.0	MIN	1.00
↓ 0.00		

Measuring Interface

### OPERATION

- Inco Style Menu
- Showing different data modes
- Stroll Bars Indicates Function
- Free to change : Huge front and normal

### FUNCTION

- USB for Storage, Plug and Play  
Covenient to read thickness values
- Massive Data Memory-100,000 data sets  
1000 files could be saved , every file could memory 1000 data sets

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Brief Interface



Menu

## ■ Statistic Function

Online statistic :Max Min, Standard Devraation  
Document Statistic : Max Min Average, mean square error

## ■ Probe Connection/Coupling Indicator

## ■ Bluetooth function

it is more convenient to transfer data, and it is more intuitive and clear to read data.

## ■ LCD display screen

clear reading value

## OPERATION

## ■ Accuracy : 0.1/0.01mm or 0.01/0.001 inch resolution

## ■ Extra-long standby time : 200 hours.

<b>performance index</b>
<b>Working principle</b> Ultrasound (ultrasonic pulse echo / echo echo)
<b>Detection range</b> Normal mode : 0.75~400mm Penetrate the coating : 2~25mm (Depending on the probe, the measured material and surface condition)
<b>Resolution</b> 0.1mm(> 100mm)/0.01mm(<100mm)
<b>Indicator</b> ± (0.5%H+0.01) mm
<b>Velocity</b> 1000~9999m/s, Preset 5 commonly used material velocity
<b>Calibration</b> Through the realization of real-time calibration probe zero unique automatic zerocalibration technique

<b>V range correction</b> Auto
<b>Probeconnection indicating</b> Yes
<b>Coupling condition</b> Cue signal coupling intensity; measured value displayed solid / hollow change, visual indication of whether the normal measurement
<b>Appearance size</b> 165×82×30 mm
<b>Weight</b> 250g (Including battery)
<b>Work environment</b> <b>Temperature:</b> -20℃~70℃ <b>Humidity:</b> 5%~90%
The environment without strong vibration, no strong magnetic field, non corrosivemedium and serious dust.
<b>Measuring Range:</b>

Normal : 0.75~400mm Coating : 2-25mm
<b>Excitation pulse</b> 150V Negative spike
<b>Receiving system</b>
<b>Gain</b> High / low / automatic
<b>Frequency bandwidth</b> 0.5~15MHz
<b>Display</b>
<b>LCD dot matrix display</b> High contrast 128X64 Beatiful characters Number, Symbol, High Brightness EL Backlight
<b>Refresh rate measurement</b> Single point measurement of 5 times per second, 25 times / sec scan mode
<b>Measured value / alarm</b>
<b>Measured value display</b> 3 custom measurement display area, can



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choose online statistics or sound	<b>The thickness values</b> 1000sets/Group Linearity	Chinese/ English
<b>Statistical data</b> Online Statistics: maximum, minimum, standard deviation Document statistics: maximum / small value, mean, variance	<b>USB Storage</b> Connection USB is allowed, convenient to read thickness values	<b>Unit</b> mm/inch
<b>Alarm</b> Acousto optic alarm threshold	<b>Input and output</b>	<b>Power Source</b>
<b>Storage</b>	<b>probeconnection</b> LEMO 00 (C5) x2	<b>Battery</b> 1.5V AAA x 4
<b>Data set</b> 1000 Sets	<b>Communication</b> RS232/USB	<b>Working time</b> Can work continuously for 200 hours (standard test conditions)
	<b>Language</b>	<b>Standard Package</b>
		Host 1 Instructions 1 Probe 1 Packingbox 1 Battery 1 couplant 1

## ... Probe of Our Thickness Gauge

Model	Automatic zero	Measurement precision	USB	Penetrate the coating	Statistical function	Storage Capacity
Upad X100	V	0.1/0.01mm	X	X	Online statistics	100 Groups
Upad X200	V	0.1/0.01mm	V	X	Online statistics / data statistics	500 Groups
Upad X300	V	0.1/0.01mm	V	V	Online statistics / data statistics	1000 Groups
Upad X400	V	0.1/0.01mm	V	V	Online statistics / data statistics	1000 Groups

## ... Probe of Our Thickness Gauge

Application	Mode	Rate	Probe Diameter	Measuring range	Minimum diameter
Standard application	DA301S	5 MHz	10mm	0.75mm~400.0mm (Steel)	Φ20mm×3.0mm
Standard application	DA301S/90	5 MHz	10mm	0.75mm~400.0mm (Steel)	Φ20mm×3.0mm
Thick Wall	DA303S	2 MHz	22mm	3.0mm~300.0mm (Steel)	20mm
Thin wall	DA312S	7 MHz	6mm	0.75mm~80.0mm (Steel)	Φ15mm×2.0mm
High temperature	HT400S	5 MHz	14mm	3~200mm (Steel)	30mm
High attenuation	DA408S	2 MHz	22mm	40mm ↓ (Grey cast iron HT200)	20mm

## ... Commonly used material velocity

Material type		Sound velocity	
		inch/us	m/s
Aluminum	Aluminum	0.250	6340-6400
Steel, common	Steel, common	0.233	5920
Steel, stainless	Steel, stainless	0.226	5740
Brass	Brass	0.173	4399
Copper	Copper	0.186	4720
Iron	Iron	0.233	5930
Cast Iron	Cast Iron	0.173-0.229	4400-5820
Lead	Lead	0.094	2400

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Silver	Silver	0.142	3607
Gold	Gold	0.128	3251
Titanium	Titanium	0.236	5990
Tin	Tin	0.117	2960
Nickel	Nickel	0.222	5639
Porcelain	Porcelain	0.230	5842
Rubber, vulcanized	Rubber, vulcanized	0.091	2311
Water	Water	0.058	1473

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