



## Ultrasonic Thickness Gauge

Upad X400

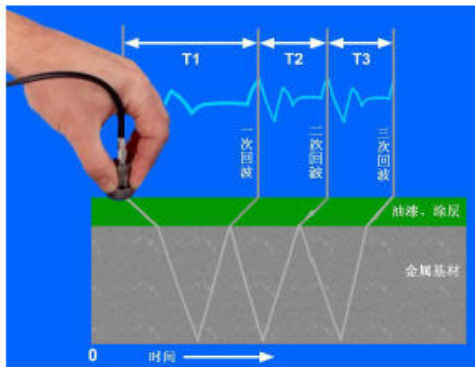
### X 400 : High Performance, Low Price

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

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



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

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

|   |
|---|
| automatic zero calibration technique  |
| <b>V range correction</b> Auto  |
| <b>Probe connection indicating</b> Yes  |
| <b>Coupling condition</b><br>Cue signal coupling intensity: measured value displayed solid / hollow change, visual indication of whether the normal measurement |
| <b>Appearance size</b><br>165×82×30 mm  |
| <b>Weight</b><br>250g (Including battery)   |
| <b>Work environment</b><br><b>Temperature:</b> -20℃~70℃<br><b>Humidity:</b> 5%~90%  |

|  |
|--|
| The environment without strong vibration, no strong magnetic field, non corrosivemedium and serious dust.                                      |
| <b>Measuring Range:</b><br>Normal : 0.75~400mm<br>Coating : 2-25mm   |
| <b>Excitation pulse</b><br>150V Negative spike   |
| <b>Receiving system</b><br><b>Gain</b> High / low / automatic  |
| <b>Frequency bandwidth</b><br>0.5~15MHz  |
| <b>Display</b><br><b>LCD dot matrix display</b><br>High contrast 128X64<br>Beatiful characters<br>Number, Symbol, High Brightness EL Backlight |

|  |   |  |      |   |              |   |       |   |            |   |         |   |          |   |
|--|---|--|------|---|--------------|---|-------|---|------------|---|---------|---|----------|---|
| <p><b>Refresh rate measurement</b><br/>Single point measurement of 5 times per second, 25 times / sec scan mode</p> <p><b>Measured value / alarm</b></p> <p><b>Measured value display</b><br/>3 custom measurement display area, can choose online statistics or sound</p> <p><b>Statistical data</b><br/>Online Statistics: maximum, minimum, standard deviation<br/>Document statistics: maximum / small value, mean, variance</p> <p><b>Alarm</b> Acousto optic alarm</p> | <p>threshold</p> <p><b>Storage</b></p> <p><b>Data set</b> 1000 Sets</p> <p><b>The thickness values</b><br/>1000sets/Group Linearity</p> <p><b>USB Storage</b><br/>Connection USB is allowed, convenient to read thickness values</p> <p><b>Input and output</b></p> <p><b>probeconnection</b> LEMO 00 (C5) x2</p> <p><b>Communication</b><br/>RS232/USB</p> | <p><b>Language</b><br/>Chinese/ English</p> <p><b>Unit</b> mm/inch</p> <p><b>Power Source</b></p> <p><b>Battery</b> 1.5V AAA x 4</p> <p><b>Working time</b><br/>Can work continuously for 200 hours (standard test conditions)</p> <p><b>Standard Package</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Host</td> <td>1</td> <td>Instructions</td> <td>1</td> </tr> <tr> <td>Probe</td> <td>1</td> <td>Packingbox</td> <td>1</td> </tr> <tr> <td>Battery</td> <td>1</td> <td>couplant</td> <td>1</td> </tr> </table> | Host | 1 | Instructions | 1 | Probe | 1 | Packingbox | 1 | Battery | 1 | couplant | 1 |
| 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      |

... 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      |
| 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      |