



NDT expert

Solid (Beijing) Technology Co., Ltd.



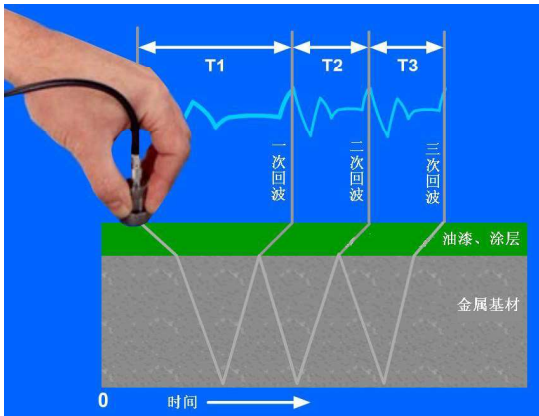
Ultrasonic Thickness Gauge

Upad X300

Ultrasonic Thickness Gauge Upad X300

Upad X300 — Ultrasonic Thickness Gauge devote himself to accompany with you test the thickness of steel, cast steel, aluminum, plastic ,China glass, glass fiber and any other good conductors/materials of ultrasonic.

These series integrate two wonderful functions: U disk connection and Auto zeroing calibration in real time. U disk connection can help you save data conveniently and immediately while the auto zeroing calibration work principle solves the probe wearing problem and reduces error when you change probe.



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

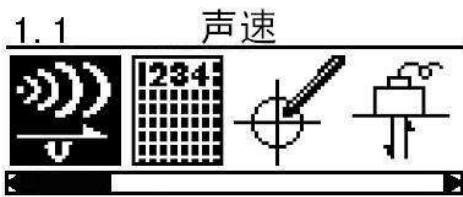
Solid (Beijing) Technology Co., Ltd.

Add: 301 Building C, No.31 Wangfu Street, Changping District, Beijing, 102200, China

Web: www.solidnde.com



Brief Interface



Menu

■ Statistic Function

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

■ Probe Connection/Coupling Indicator

■ Coating removal function

OPERATION

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

■ Extra-long standby time : 200 hours.

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

| |
|--|
| Yes |
| Coupling condition |
| Cue signal coupling intensity; measured value displayed solid / hollow change, visual indication of whether the normal measurement |
| Appearance size |
| 165×82×30 mm |
| Weight |
| 250g (Including battery) |
| Work environment |
| Temperature: -20°C~70°C |
| Humidity: 5%~90% |
| The environment without strong vibration, no strong magnetic field, non corrosivemedium and serious dust. |
| Measuring Range: |
| Normal : 0.75~400mm |
| Coating : 2-25mm |
| Excitation pulse |
| 150V Negative spike |

| Receiving system | |
|---|------------------------|
| Gain | High / low / automatic |
| Frequency | bandwidth |
| 0.5-15MHz | |
| Display | |
| LCD dot matrix display | |
| High contrast 128X64 Beautiful characters Number, Symbol, High Brightness EL Backlight | |
| Refresh rate measurement | |
| Single point measurement of 5 times per second, 25 times / sec scan mode | |
| Measured value / alarm | |
| Measured value display | |
| 3 custom measurement display area, can choose online statistics or sound | |
| Statistical data | |
| Online Statistics: maximum, minimum, standard deviation Document statistics: maximum / small value, mean, variance | |

| | | | |
|--|---|---|----------------|
| Alarm Acousto optic alarm threshold | Input and output probeconnection LEMO 00 (C5) x2 Communication RS232/USB Language Chinese/ English Unit mm/inch | Power Source | |
| Storage | | Battery 1.5V AAA x 4 | |
| Data set 1000 Sets | | Working time Can work continuously for 200 hours (standard test conditions) | |
| The thickness values 1000sets/Group Linearity | | Standard Package | |
| USB Storage Connection USB is allowed, convenient to read thickness values | | Host 1 | Instructions 1 |
| | Probe 1 | Packingbox 1 | 1 |
| | Battery 1 | couplant 1 | 1 |

... Probe of Our Thickness Gauge

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

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| | | | |
|--------------------|--------------------|-------|------|
| 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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