



ULTRASONIC THICKNESS GAUGE **UTG-01 +**

INTRODUCTION

This is an intelligent handheld product, which adopts ultrasonic measuring principle, is controlled by micro-processor and provides quick and precise measurement of thickness for most of industrial material. This unit is widely used in various precise measurements for different hardware/parts in industrial realm; one of its important applications is to monitor the level of thickness- decreasing during operation of various and pressure container. Diffusely applied in manufacture fields, metal processing, and commercial inspection. The material that conducts and reflects constant sonic velocity, this product can be used.

This unit is suitable for measuring materials that are good ultrasonic conductors such as metal, plastic, ceramic, glass etc. As long as the measured part in two parallel surfaces for measurement of thickness. This unit is not suitable for cast iron due to its big crystalloid composition.

FEATURES

- Auto calibration to assure the accuracy
- Auto linear compensation: this advanced software program enhances the precision by correcting the non- linear accuracy of transducer
- Coupling icon to learn if the coupling is accomplished or not
- 10 thickness measurement storage and recall function
- Sound velocity measurement : With a given thickness a sample block to measure the sound velocity, avoid further calculating sound velocity for different material
- Low battery Indication
- Auto Power Off mode

SPECIFICATIONS

- Transducer choice : $\Phi 10\text{mm}$ 2.5MHz Transducer, $\Phi 10\text{mm}$ 5.0MHz Transducer
- Display : 4-digit LCD display
- Minimum display unit : 0.1mm
- Working frequency : 5MHz/2.5MHz
- Measuring range : 1.2 to 220mm (steel)
- Minimum limit for tube curvature measurement : 20*3mm (steel)
- Accuracy : $\pm(1\%H+0.1)\text{mm}$, H denotes the measured thickness
- Sound velocity range : 1000 to 9999 m/s
- Measuring sound velocity with a given thickness : measuring range : 1000 to 9999 m/s. When the given thickness over 20mm, the accuracy is $\pm 5\%$; when the given thickness less than 20mm, the accuracy is $\pm 1\text{mm}/H*100\%$
- Operation temperature : 0°C to 40°C
- Power supply : 3*1.5V AAA alkaline batteries
- Operation current : Normal operation current $\leq 50\text{mA}$
With Backlight turn on current $\leq 120\text{mA}$
Stand-by current : $\leq 20\mu\text{A}$
- Size : 70.0*135*38mm



*Technical Specifications & Appearance are subject to change without prior notice

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