

INTRODUCTION

This is an intelligent hand-held product which adopts the principle of ultrasonic measurement and is controlled by micro-processor and provides quick and precise measurement of thickness for most industrial materials. This unit is widely used in various precise measurements for different industry hardware and parts; one of its important applications is to measure the decrease in thickness of material during various pressure operations. Widely applied in manufacturing fields, metal processing, and commercial inspections. This gauge can be used for all materials that conduct and reflects constant sonic velocity.

This unit is suitable for measuring materials that are good ultrasonic conductors such as metal, plastic, ceramic, glass, etc. The instrument is to be used only on objects that have two parallel surfaces. Not suitable for cast iron due to its big crystalloid composition.

FEATURES

- Auto calibration to assure accuracy
- Auto linear compensation: this advanced software program enhances the precision by correcting the non-linear accuracy of transducer
- Coupling icon displays if successful coupling is achieved
- 10 thickness measurement storage and recall functions
- For calibration, if the Sound velocity measurement has been done with the given sample block, then it need not be redone on various surfaces
- Low battery Indication
- Auto Power Off mode

SPECIFICATIONS

- Transducer choice : Φ 10mm 2.5MHz Transducer,
 Φ 10mm 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 : $\pm(1\%H+0.1)$ 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