



### **Ultra Precise Ultrasonic thickness gauge UM-3**

State of the art ultrasonic technology allows you to obtain ultra precise thickness measurements and store them to memory. This digital tester is capable of reading wall thickness down to 0.1mm with a super high adjustable resolution of up to 0.001mm. This dynamic sonic gauge is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminium, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The UM-3 will accurately display reading in either inch or millimeter after a simple calibration to a known thickness or sound velocity.

#### **Specifications:**

**Measuring range** 1.5mm to 18mm (0.059 inch to 0.709 inch ) in interface-echo mode

**Display resolution** 0.0001 inch /0.001 inch or 0.01 inch when  $H < 0.4$  inch

0.001mm / 0.01mm/ 0.1mm when  $H < 0.4$  inch

0.001 inch/ 0.01 inch when  $H \geq 0.4$  inch

0.01mm / 0.1mm when  $H \geq 0.4$  inch



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**Accuracy :**  $\pm 0.002$  inch or  $\pm 0.05$  mm  
**Repeatability:**  $\pm 0.001$  inch or  $\pm 0.025$ mm  
**Velocity:** 1000 to 9999 m/s, 0.039 to 0.394 inch/ us  
**Frequency:** 4 Hz in standard measurement mode/ 25 Hz in Min capture mode  
**Onboard memory:** 500 readings in maximum 5 files  
**Batteries:** 2 X AA batteries  
**Operating hours:** 200 working hours without back light  
**Software:** Optional  
**Dimensions:** 149X 73X32 mm (5.86 X 2.87X 1.25 inch)

**Standard delivery:**

Main unit  
Standard probe with cable  
Battery  
Carrying case  
Operation manual  
Couplant

**Optional accessories:**

Test block  
Software and connection cable  
Different probes