

0.001mm Resolution

Precise thickness gauge with A/B scan



UTMP-5 Series

Ultrasonic Thickness Gauge

UTMP-5 & UTMP-5DL Technical Parameters

Product Features

1. High precision, 0.001mm resolution
2. Real time A-Scan with adjustable gain, range, blanking etc.
3. Especially fits for ultrathin workpiece, accurate and reliable measurement of 0.2mm thin materials.
4. Through coating measurement, e.g. the paint layer on the material can be directly measured without grinding.
5. Unique multiple-wave verify mode, all measured values are verified by 3 to 9 echos, which makes the result more reliable and accurate.

Technical Parameter	
Display	2.4-inch color TFT LCD screen
Measuring Mode	Interface-Echo Mode(I-E): for thick material Echo-Echo Mode (E-E): for thin material and through coating measurement Multiple Echo Verify Mode (ME-E): for thin material and through coating measurement, reliable and accurate result. Auto Mode: the instrument automatically selects the measurement mode according to the measured material.
Measuring Range(Steel)	Interface-Echo Mode: 2.0mm-27mm Echo-Echo Mode: 0.2mm-15mm Multiple Echo Verify Mode: 0.2mm-10mm Auto Mode: 0.2mm-27mm
Display Mode	A-SCAN: Complete RF echo or rectified half-wave waveform. B-SCAN: Time-based B scan, showing the profile view of the workpiece. Big Thickness Value: Regular display view of thickness values Difference/Thickness thinning rate: Display the difference between the measured thickness and the preset thickness and the percentage reduction. Min./Max. Capture: Display the current thickness value, Min. value and Max. value at the same time.
Gain	Real time continuous adjustable, adjustment range 41dB
Measuring Resolution	0.001 mm or 0.01mm (0.0001 in or 0.001 in)
Measuring update rate	Selectable 4Hz, 8Hz, 16Hz
Material Velocity Range	500-9999m/s, 0.0197-0.3937in/us
Alarm Setting	When the measured value exceeds the preset upper or lower limit, the color of the thickness reading is dynamically changed and alarms.
Units	Inch or Millimeter
Language	Chinese, English, French, Germany, Japanese
Power	2 AA size batteries, Working time \geq 35 hours
Power Off	Selectable ALWAYS ON or AUTO OFF after 5, 10, 20 minutes of no operation.
Working Temperature	-10℃ \sim +50℃
Size	153mm \times 76mm \times 37mm(H \times W \times D)
Weight	280g including batteries
Data Storage(Only UTMP-5DL)	
Capacity	400 files, 100,000 thickness values and 1000 groups of waveforms
File Structure	Grid file
Communication Connector	USB 2.0
Communication Software	Data View Software

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