



Ultrasonic Thickness Gauge Uee962

(A Scan, B Scan, E-E)



Functions & Features

- Large measuring range: 0.12mm-1800mm
- High Precise: the maximum resolution can reach 0.001mm; the repeat resolution can reach ± 0.002mm
- Multiple display modes: A-scan, B-scan, digital display.
- Multiple measurement modes: AUTO, E-E, THIN. To meet the requirements of ultra -thin, ultra -thick, and complex workpieces.





- Echo-Echo Mode (E-E). For measuring the thickness of workpiece through the coating on its surface, it can measure the thickness of the coating and the material respectively.
- It can measure multi -layer composite materials and measure the thickness of each layer at the same time. The thickness value of each layer can be display switchable.
- Multiple probes optional: Such as double crystal probe, single crystal probe, up to 20MHz high -frequency probe.
- The digital display including conventional thickness values, differences/reduction rate modes, and the highest value mode;
- Both automatic gain and manual gain available.
- Large -capacity storage: 100,000 thickness values can be stored at the same time, 500 groups of A scan waves and 500 groups B scan waves.
- Supports multiple calibration methods: sound velocity calibration ; probe zero position calibration, V-path calibration.
- mm and inches units available.

Measuring Materials

 Adapted to all kinds of materials(with or without coating surface), which are good conductor of ultrasonic wave, such as metals(steel, cast iron, aluminum, copper and etc), plastic, ceramics, composites, epoxies, glass, fiberglass and etc.

Technical Parameters

Model	Uee962				
Probe Type	Single Crystal/ Dual Crystal				
Measuring range(steel)	0.12 mm–1800mm (depends on probes)				
Measuring Frequency	4Hz, 8Hz, 16Hz				
Resolution	0.1mm, 0.01mm,0.001mm (0.01inch, 0.001inch,0.0001inch)				
Pulser	Negative square wave, pulse width and voltage automatically matched to the probes				
Velocity range	400-19999m/s				
Standard Calibration Block	4mm(steel)				
Automatic shut-down	After 5,10, 20 minutes or Manual				





Probe Calibration	One-point, Two-points, Manual				
Gain	Auto, manual				
Gain Range	0~80dB				
Rectification	Full wave, RF, half-wave positive, or half-wave negative				
Measurment modes	 (1) AUTO: Automatic tranfer I-E, ME-E (Multiple echo), and MB-E mode (2) E-E: Thourgh coating, available choose Em– En echo (3) THIN: For testing thin parts 				
Data mode	Thickness, Differential mode/Reduction rate mode, Min./Max. value mode				
A-Scan	Yes				
B-Scan	Yes				
Coupling state	Yes				
Battery indicator	Yes				
Language	Chinese/English				
Units	mm/inch				
Menu operation	Yes				
Software function	Dynamic gate setting, blank setting (Blank), echo blank settings (E-Blank), echo freeze, echo pan and zoom in/out				
Storage	100,000 thickness measurements (100 groups, 1000 each group) and 500 A-scan, 500 B-scan				
Machine upgrade	Available				
Display	3.5 inch color screen				
Data transfer	By USB port to PC				
Operation Temperature	-10 $^\circ\!\mathrm{C}{\sim}{+}$ 50 $^\circ\!\mathrm{C}$, Special requirements are available up to -20 $^\circ\!\mathrm{C}$				
Power supply	3 x AA Li-ion battery (3.7V*3)				
Dimensions	165 x 75 x 30 mm				
Net weight	300 g				
Standard accessories	Main machine, Probe DTM15, Power adapter, Protect cover, ABS box, Manual, Qualified certificate, Warranty card				
Optional accessories	Probes for different application, Delay line tips				





Probe Parameters

Model	Туре	Frequency(MHZ)	Diameter(mm)	Measuring Range(mm)
TS400	Dual Crystal	10	5	0.5-50
TS500		5	5	1.0-65
T\$510		5	10	1.0-500
GS510 (-20~500℃)		5	10	1.0-500
DTM15*	Single Crystal	15	6	0.12-22.5
DTM7.5		7.5	6	0.5-22.5
DTM10		10	6	0.3-22.5
DTM5		5	6	1.0-22.5
BD510		5	10	1-1000
BD212		2	12	4-1800
BD1010		10	10	0.5-1000
BD215 (Pencil Type)		15	2	0.3-12



Pictures





