

Ultrasonic Flaw Detector TUD201



- Easy to update and convenient to maintain
- Large & bright EL display screen, brightness adjustable
- Manual or automatic creation of DAC curve with standard test block
- Gate setting and alarm indication
- Storage up to 100 A scan waveforms and 10000 thickness readings
- RS232 interface
- Waveform freezing and peak hold

Technical specifications

Test modes	Pulse-echo and dual
Pulser	Spike pulse transmitter
Min. range	2.5 mm (C=5920 m/s, steel) 0.1 inch (C=233 inch/ms)
Max. range	9999mm (C=5920m/s, steel) 390 inch (C=233 inch/ms)
Material velocity	1000 to 9999 m/s variable in steps of 1 m/s 40 to 390 inch/ms in steps of 0.1 inch/ms
Display delay	-20 μ s to +3400 μ s
Probe delay	0 to 99.99 μ s, steps of 0.01 μ s
Gain	0-110 dB variable in selectable steps of 0.2,0.5 ,1,2,6,12 step 0.0=locked
Damping	50 ohms, 150 ohms, and 400 ohms
Rectification	Full wave, positive half wave, negative half wave and RF
Bandwidth	Three selectable broadband (-3dB): Low 0.2-1 MHz Middle 0.5-4 MHz High 1-10 MHz
Reject	Linear, 0-80% of full screen, variable in steps of 1%
Measurement resolution	Sound path:0.1mm(display range <99.9 mm) 1mm (display range \geq 100 mm) 0.01 inch (display range <3.90 inch) 0.1 inch (display range \geq 3.9 inch) Amplitude: 1% SH, highest echo in the Gate
Display screen and A-scan	Thin film electroluminescent display: 115mm \times 86mm, 4.5 inch \times 3.4 inch, 320 \times 240 pixels Zoom display, filled or outlined display and A-scan freeze (gate movement in the frozen A-scan impossible)
Distance readout	Provide single echo or echo to echo thickness reading or sound path, surface, and depth reading for angle beam testing with either peak or flank detection.
Unit	mm or inch
Refracted angle	Fixed setting of 0 $^{\circ}$,30 $^{\circ}$,45 $^{\circ}$,60 $^{\circ}$,70 $^{\circ}$,90 $^{\circ}$ or variable from 0 $^{\circ}$ to 90 $^{\circ}$ refracted angle in 1 $^{\circ}$ resolution
Interface	RS 232 bidirectional 9600 baud, 8 bits word length, no parity, 1 stop bit
Printer driver	TP UP-NH-S line thermal printer
Power supply	Mains and/or battery operation with 4 Li batteries, operating time approx. 6 hours Or Charger/Adapter DC Output 9V/3A
low battery alarm	on-screen warning of low battery
AC Mains requirements	85 to 264VAC/1.0A, 47 to 63Hz
Charging time	4~5 hours maximum
Operating temperature	0 +40
Storage temperature	-20 to \ll 60
Dimensions (D \times W \times H)	53 mm \times 184 mm \times 230 mm
Weight	1.4 kg/3.1 lbs. with batteries
Probe connector	LEMO

