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## TIME Precision Measuring Instrument

### Ultrasonic Flaw Detector TUD300



#### Features:

- Measuring of pitch interval and analyze of echo times
- Auto-calibration of probe and auto-gain
- Two measuring unit: mm / inch
- All built-in software can be up-graded on PC
- Lock / unlock the system parameters
- Equipped with gate setting and alarming function
- Two measurement displaying mode: A-scan and B-scan
- Freeze / defreeze waveform and detection parameters
- Communicating with PC by RS232 part for transferring the measuring data and system parameter
- 10 detecting channels are available with separated detecting parameters and DAC curve in every channel
- Automatic generation of DAC curve, and 30 points can be recorded at most, adjustable offset curves and gain correction functions are available
- Provided with linear reject function, the highest range is 80% of the screen height
- Memory up to 300 A scanned images, parameters and DAC. and 30000 thickness values
- Four Rectify Ways: positive half-wave, negative half-wave, full-wave and radio frequency
- Three detecting modes: single-probe, dual-probe ones and transmission

## Technical Specification:-

Scanning Range	2.5mm ~ 5000mm
Scanning Resolution	0.1mm (2.5mm ~ 100mm) 1mm (100mm ~ 5000mm)
Gain Range	0dB ~ 110 dB
D-Delay	-20 $\mu$ s ~ + 34 $\mu$ s
P-Delay	0 $\mu$ s ~ 99.99 $\mu$ s, resolution 0.01 $\mu$ s
Sound speed	1000 m/s ~ 9999 m/s
Bandwidth	0.2MHz ~ 15MHz (Low 0.2 ~ 1, Mid 0.5 ~ 4, High 3 ~ 15)
Vertical linearity error	= 3%
Horizontal linearity error	= 0.2%
Dynamic range	= 32dB
Rectification	Positive half wave, negative wave, full wave, and RF
Sensitivity leavings	= 60dB
Test mode	Pulse-echo, dual and through transmission
Pulser	Spike excitation pulser
Damping	50ohms, 150ohms and 400ohms
Reject	Linear, 0-80% of full screen, variable in steps of 1%
Unit	mm / inch
Interface	RS232
Printer	TP UP-NH-S line thermal printer
AC requirements	85-264V AC/1.0A, 47-63Hz
Temperature	-10° C ~ 40° C
Humidity	20% ~ 90%RH
Power supply	Li battery 4 × 3.6V 400mAh
Charging time	4 ~ 5 hours
Weight	1.47 Kg
Overall	243mm × 173mm × 70mm

## Standard Delivery

- Main unit 1
- Power adaptor 1
- Neck strap 1
- Cable for probe 2
- Carrying case 1
- Instruction manual 1
- Straight probe 1
- Angle probe 1
- Couplant 1
- TIME certificate 1
- Warranty card 1
- Instruction manual 1

## Optional Accessory

- Connecting cable
- Dataview software for TUD300
- Printer TP UP-NH
- Various probes (see page 35)

