

Ultrasonic Thickness Gauge TT500



Features:

A scan thickness measuring, easy for users to identify the measuring errors by analyzing the waveform on screen

Function of echo-echo measurement is available. It is used for measuring the distance between echo to echo, and thus users will get to know the thickness of steel plate even though it is covered by coating, such as inspection of oil tanks

Min. and Max. mode function is supplied for users to find out the Min. (or Max.) value from a group of measuring results. It is very useful for inspecting the wall thickness of pipes and pressure vessels

D-value mode function. It comprises normal D-value mode and percentage D-values mode. It will enhance operator's working efficiency greatly. Specially, users working with exact and changeless process requirements will benefit from TT500 immensely

Large memory up to 100 A-scan images and 10000 thickness values

Manual gain adjustment/auto gain selectable

Up and low limits alarm is available

Technical Specification

Measuring range	0.75~508.00mm
Sound speed	1000~9999m/s
Scanning mode	A scan
Gain range	20~70db step: 1db
Rectification	Positive half wave, negative wave, full wave, and RF
Testing mode	Standard mode: testing from primary pulse to the first echo
	Testing between two echoes
Resolution	Standard: 0.01 low: 0.1
Memory	100 A scan graphs and 10000 thickness values in 100 groups
Communication	RS232 port to PC or printer
Printer	TP UP-NH-S thermal printer
Tolerance (steel)	1. when resolution is 0.01mm and thickness H<10mm, the tolerance is ± 0.05 mm
	2. when resolution is 0.01mm and thickness H<10mm, the tolerance is $\pm (0.5\%H + 0.01)$ mm
	3. when resolution is 0.1mm, the tolerance is $\pm (1\%H + 0.1)$ mm
Low limits for steel pipes	1. $\phi 20$ mm \times 3.0mm tolerance is less than ± 0.1 mm (resolution =0.01mm, 5MHz transducer)
	2. $\phi 20$ mm \times 3.0mm tolerance is less than ± 0.2 mm (resolution =0.1mm, 5MHz transducer)
Pulse frequency	1KHz
Working temperature	0 ~-40
Dimensions (mm)	234 \times 127 \times 38
Weight (kg)	1

Standard Delivery

Main unit	1
Transducer 5P ϕ 10	1
Screw driver	1
Protection sheath	1
Battery box	1
Power adapter	1
Test block	1
AA battery	4
Couplant	1
Instruction manual	1
Warranty card	1
TIME certificate	1

Optional Accessory

Optional transducers (See page H7)	
Printer TP UP-NH	