Ultrasonic Thickness Gauge

CTS-30A
CTS-30B



The CTS-30A / CTS-30B ultrasonic thickness gauge, adopts micro-processor technology and advanced manufacture process design, can do measurement of thickness and acoustic velocity on metal and many materials based on ultrasound measurement principle.

- Mono LCD (with backlight), 128×64 pixels
- Measurement range: 0.8mm-300mm/400mm (steel)
- Measurement accuracy: 0.01mm/0.1mm
- Various measurement modes available: Minimum measurement value capture, average measurement value, setup limit measurement value, difference measurement value, etc.
- Input the known thickness and the system may show the velocity of the inspected workpiece in real time.
- Up to 5000 sets of measurement data (refer to measurement value and acoustic value) and 100 sets of parameter data (refer to measurement value and system setup, etc.) can be saved.
- Compact size, light weight, low consumption and long operation period.

Compared with CTS-30A, the CTS-30B model has more advanced functions, such as:

- Fast Scan
- Two-point calibration
- Multi-probe selection

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Specifications

Model	CTS-30A	CTS-30B
Measurement range	0.80~300.00 mm (steel)	0.80~400.00 mm (steel)
Gain	Standard	Low / Standard / High
User-defined Calibration	One point	One point / Two points
Measurement accuracy	0.01 mm /0.1 mm	
Material velocity range	1000~9999 m/s	
Display error (With configured probe)	When range is 0.80mm ~9.99mm, measurement accuracy is ±0.01mm and tolerance is ±0.05mm. When range is 10.00mm ~99.99mm, measurement accuracy is ±0.01mm and tolerance is ± (1‰H+0.04)mm. When range is 100.0mm~300.0mm, measurement accuracy is ±0.1mm and tolerance is ⩽3‰Hmm. 【Note】: H is thickness of the detected material.	
Calibration	Auto calibration with built-in test block (steel)	
Measurement function	Minimum measurement value capture, average measurement value, setup limit measurement value, difference measurement value, etc. Moreover, the CTS-30B has fast scan function.	
Measurement mode	R-B1 (transmission pulse to the first echo)	
Dynamic velocity measurement	Input the known thickness and the system may show the velocity of the inspected workpiece in real time.	
Power-saving	When out of operation for a while, the system will power off automatically. When the battery power is low, the screen will prompt.	
Buzzer	For measurement overange and calibration indication.	
Data transmission	System internal data can be transferred to a PC via the USB port.	
Storage function	Up to 5000 sets of measurement data (refer to measurement value and acoustic value) and 100 sets of parameter data (refer to measurement value and system setup, etc) can be saved.	
Measure unit	inch / mm	
Display Screen	2.2-inch Mono LCD (with backlight) with 128×64 pixels	
Power supply	2 size AAA batteries	
Operation time	Continuous operation for more than 30 hours	
Operating temperature	-10~40℃	
Weight	Approx. 120g (including batteries)	
Dimension	65 mm X 98 mm X 24 mm	
Compatible probe	5MHz	2 MHz
		5 MHz
		7.5MHz
		High temperature probe

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