CTS-30A
CTS-30B

Ultrasonic Thickness Gauge

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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 different materials.

- Simple keypad and intuitive menu
- Compact: 100×65×25 (mm), 140g (with batteries)
- Low consumption: ⩾30 hours operation time
- Auto and user-defined calibration
- Measurement accuracy: 0.01mm/0.1mm
- Measurement range: 0.8mm-300mm/400mm (steel)
- Various measurement arithmetic: standard/ minimum/ average/ difference
- Up to 5000 sets of measurement data and 100 sets of parameter data
- EN15317 compliant

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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Technical Specification

Model	CTS-30A	CTS-30B
Measurement Mode	R-B1 (transmission pulse to the first echo)	
Measurement Range	0.80~300.00 mm (steel)	0.80~400.00 mm (steel)
Display Resolution	0.01 mm/0.1 mm	
Material Velocity Range	1000~9999 m/s	
Gain	Low/ standard/ high	
Pulser	Negative square	
Measurement Times	2 times every second for general scan	2 times every second for general scan Approx.20 times every second for fast scan
Display Error (With configured probe)	0.80~9.99mm: ± 0.05mm 10.00~99.99mm: ± (1‰H + 0.04)mm 100.0~300.0mm: ± 3‰H mm Note: H is thickness of the detected material.	
Calibration	Auto calibration with built-in test block (steel)	
	User-defined calibration (one point)	User-defined calibration (one point/ two points)
Interface Mode	Standard measurement/ Simple menu setup interface	
Measurement Function	Standard/ minimum/ average/ difference	Standard/ minimum/ average/ difference/ fast scan
Dynamic Velocity Measurement	Input the known thickness and the system may show the velocity of the inspected workpiece in real time.	
Last Reading	When the coupling is lost, the measurement reading remains at the value of the last coupling state.	
Power-saving	When out of operation for a while, the system will power off automatically (1/2/5 mins for option). When the battery power is low, the screen will prompt.	
Buzzer	For measurement overload and calibration indication.	
Data Transmission	Data can be transferred to a PC via the mini USB port.	
Pipe Wall Thickness Measurement (steel)	Measurable for diameter not less than 20mm and thickness not less than 2mm with configured probe.	

General Technical Specification		
Display Screen	2.2-inch Mono LCD (with backlight) with 128×64 pixels	
Measure Unit	inch/ mm	
Storage	Up to 5000 sets of measurement data (refer to measurement and velocity value) and 100 sets of parameter data (refer to measurement value and system setup, etc.) can be saved.	
Language	14 languages for selection, including English, French, German, Russian, Italian, Spanish, Portuguese, Japanese, Czech, Slovak, Hungarian, Swedish, Finnish, Polish	
Battery Operation Time	Continuous operation for more than 30 hours	
Power Supply	Two size AAA batteries	
Operating Temperature	-10℃~ 40℃	
Storage Temperature	-20℃~ 60℃	
IP Code	IP54	
Weight	Approx. 140g (including batteries)	
Dimension (W×H×L)	100 × 65 × 25 (mm)	
Compatible Probe	5MHz (for CTS-30A)	2/ 5/ 7.5 MHz probe; High temperature probe (for CTS-30B)

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Shantou Institute of Ultrasonic Instruments Co., Ltd.

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