

CTS-30C



Ultrasonic Thickness Gauge



The CTS-30C is an entry-level & cost-effective thickness gauge, especially good for thru-coating thickness measurement on painted/ coated thin wall pipe in machinery, chemical, ship building, aeronautical and aerospace industries.

Small size, light weight, super-low consumption and easy operation make it suitable for aloft and field work.

- Wrist strap to free hands
- Fast scan: Approx.20 times every second
- Fast zero point and two-point calibration
- Multi-probe selection: Thru-coating/ high temperature/ 2-7.5MHz probes
- Measurement function: Standard/ minimum/ average/ difference/ fast scan
- Large storage, data can be transferred to PC and generated as a TXT file.
- EN15317 compliant



Thru-coating measurement

With special thru-coating probe, CTS-30C can measure and display the true metal thickness and the thickness of coating layer will be ignored. No need to remove paint or coatings from surfaces.

Echo-to-Echo mode, measurement range: 3-50mm (steel)

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Technical Specification

Function	Specifications
Measurement Mode	Normal measurement (R-B1, transmit pulse to the first echo), measurement range (0.8-400mm steel, depends on probe, material, temperature and setup) Through coating measurement (B1-B2), measurement range (3-50mm steel, depends on coating situation, material, temperature and setup)
Display Resolution	0.01/0.1 mm (0.001/ 0.01 in)
Material Velocity Range	1000-9999 m/s
Gain	Low/ standard/ high
Pulser	Negative square
Measurement Times	2 times every second for general scan, approx.20 times every second for fast scan
Display Error (With TG5-10L probe)	0.80~9.99mm: ± 0.05 mm 10.00~99.99mm: $\pm (1\%H + 0.04)$ mm 100.0~300.0mm: $\pm 3\%H$ mm Note: H is thickness of the detected material.
Calibration	Fast zero point calibration with the built-in test block (4mm, steel longitudinal wave) User-defined calibration (one-point/two-point calibration)
Interface Mode	Standard measurement /Simple menu setup interface
Measurement Function	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 TG5-10L 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°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
IP Code	IP54
Weight	Approx. 140g (including batteries)
Dimension (W×H×L)	100 × 65 × 25 (mm)
Compatible Probe	TGM5-10CL (Special thru-coating probe, wide frequency)
	TG5-10HL (High temperature probe)
	TG2-12L, TG5-6L, TG5-8L, TG5-10L, TG7.5-6L

SIUI

Shantou Institute of Ultrasonic Instruments Co., Ltd.

Add: #77, Jinsha Road, Shantou 515041, Guangdong, China

Tel: +86-754-88250150 Fax: +86-754-88603664

E-mail: siui@siui.com Website: <http://www.siui.com>

