

Detailed Product Description

CMSUT300 Ultrasonic Thickness Gauge

Ultrasonic Thickness Gauge CMSUT300 is a new generation of intelligent ultrasonic thickness gauge, using the latest high performance and low power consumption microprocessor technology, based on the principle of ultrasonic measurement, to measure the thickness of metal, glass, ceramics and other materials, and the materials of sound velocity measurement. Is widely used in all kinds of plate, pipe wall thickness, the boiler container wall thickness, all kinds of pipeline and pressure vessel, thickness measurement, monitor them in the process of using the degree of corrosion after thinning. With communication software, can be connected to computer.



CMSUT300 Ultrasonic Thickness Gauge

Main function:

1. Suitable for measuring metal (such as steel, cast iron, aluminum, copper, etc.), plastic, ceramic, glass, glass fiber and other any good conductors of ultrasonic thickness.
2. Can be equipped with a variety of different frequency, chip size, double crystal probe use.
3. Have probe zero calibration, a two-point calibration function, can be automatically on system error correction.
4. Thickness can be known the sound velocity measurement, in order to improve the accuracy of measurement.
5. With functions of coupling status alerts.
6. LED backlight display, convenient to use in dark environment.
7. The battery indicator function, can real-time display the battery remaining power.
8. With automatic power saving function dormancy, automatic shutdown, etc.
9. Small, portable, high reliability, suitable for bad operating environment, vibration, impact resistance and electromagnetic interference.
10. The background data processing function; PC communication function; printing support.

LAS IMAGENES PUEDEN VARIAR DEL ORIGINAL; INFORMACIÓN SUJETA A CAMBIO SIN PREVIO AVISO

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Technology Parameter:

Measuring range:	0.75mm~300.0mm(0.03inch~11.8inch)
Units:	Metric/Imperial unit select table
Sound Velocity Range:	1000m/s~9999m/s(0.039~0.394in/μs)
Display resolution:	0.01mm or 0.1mm(lower than 100.0mm) 0.1mm(more than 99.99mm)
Accuracy:	±(0.5%Thickness+0.04) mm, depends on Materials and conditions
Data Memory:	5 files(up to 100 values for each file) of stored values 5 Sound Velocity of stored values
Power Source:	2pcs 1.5V AA size,batteries.250 hours typical operating time (LED backlight off)
Outline Dimensions:	150mm*74mm*32mm
Workpiece surface temperature	Up to 300 degrees Celsius (with probe HT5)
The minimum thickness value capture capacity:	With a minimum thickness value capture capacity
Standard configuration:	NDT300G host, 5MHz probe, 4 mm steel calibration block, coupling agent, 2 batteries (non - Aviation)
Measurement cycle:	4 times/SEC, scanning of single point measurement model 20 times per second.
Weight:	238 g
Power source:	Type AA alkaline battery 1.5 V (2)
Optional attachments:	2 MHZ, 7 MHZ and 5 MHZ (high temperature)

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Optional probe and parameters

Model	Freq MHZ	Diam mm	Measuring Range	Lower limit	Description
N02	2	22	3.0mm~300.0mm (In Steel) 40mm (in Gray Cast Iron HT200)	20	for thick, highly attenuating, or highly scattering materials
N05	5	10	1.2mm~230.0mm (In Steel)	Φ20mm×3.0 mm	Normal Measurement
N05 /90°	5	10	1.2mm~230.0mm (In Steel)	Φ20mm×3.0 mm	Normal Measurement
N07	7	6	0.75mm~80.0mm (In Steel)	Φ15mm×2.0 mm	For thin pipe wall or small curvature pipe wall measurement
HT5	5	14	3~200mm (In Steel)	30	For high temperature (lower than 300°C) measurement.

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Advantage comparison

1.The advantages of ultrasonic thickness gauge AUT300	The same price of other types of Thickness Gauge
2.Menu operation, high brightness LCD LCD display, LED backlight	Fault code EL display, power consumption, dark environment can not see
3.Sound speed adjustable, can be a variety of materials measurement	Low-cost manufacturers only 5920 a steels velocity
4.It can be matched with various probe (coarse, small size, high temperature) without the need for calibration, automatic calibration	Multiple probes cannot identify automatically
5.A minimum acquisition indicator	No minimum thickness capture capacity
6.Can store 500 sets of data and 5 documents	Can store 50~100 data set
7.The internal use of highly integrated motherboards, chips are imported, stable performance!	Most of the two circuit boards, using a ho memade device mostly, unstable performance
8.With USB interface, can be connected to a computer with a data processing software	No interface and data software

Application

Various parts of instruments, to provide fast, accurate measurement of the plate and the parts processing table. Another important application of this watch is monitoring the production equipment of all kinds of piping and pressure vessel, in the use of monitor to the refinement degree. Can be widely used in petroleum, chemical, metallurgy, shipbuilding, aviation, aerospace and other fields.