Metrix+™
Innovative Excellence

Ultrasonic Thickness Gauge Through Coating Thickness

Main Functions Mod: UTM 18CT

1) Multi-mode: Pulse-Echo mode and Echo-Echo mode.
2) Capable of performing measurements on a wide range of material,including metals, plastic, ceramics, composites, epoxies, glass and other ultrasonic wave well-conductive materials.
3) Transducer models are available for special application, including for coarse grain material and high temperature.
4) Probe-Zero function, Sound-Velocity-Calibration function
5) Two-Point Calibration function.
6) Single point mode and Scan mode. Seven measurements readings per second in single point mode, and sixteen per second in Scan Mode.
7) Coupling status indicator showing the coupling status.
8) Units: Metric/Imperial unit selectable.
9) Battery information indicates the rest capacity of the battery.
10) Auto sleep and auto power off function to conserve battery life.
11) Optional software to process the memory data on the PC.

The model **UTM 18CT** ultrasonic thickness gauge. Based on the same operating principles as SONAR, the instrument is capable of measuring the thickness of various materials with accuracy as high as 0.1/0.01 millimeters. The multi-mode feature of the gauge allows the user to toggle between pulse-echo mode (flaw and pit detection),and echo-echo mode(eliminate paint or coating thickness).

Product Specifications

1) Display：4.5 digits LCD with EL backlight.
2) Range：Pulse-Echo mode: (0.65～600)mm (in Steel). Echo-Echo mode: (3～30)mm.
3) Sound Velocity Range: (1000~9999) m/s.
4) Resolution： 0.1mm/0.01mm
5) Accuracy： ±（0.5%Thickness+0.01） mm, depends on materials and conditions
6) Memory for up to 20 files (up to 99 values for each file) of stored values.
7) Power Source:Two "AA" size, 1.5 Volt alkaline batteries.100 hours operating time (backlight off).
8) Communication：USB1.1.
9) Outline dimensions：150mm×74mm×32 mm.
10) Weight：245g
11) Operating Temperature: －20℃～＋60℃;
12) Storage Temperature：-30℃～＋70℃

Standard Configuration

Main body 1
Probe Select From Table ➡
Couplant 1
Instrument Case 1
Operating Manual 1
Guarantee Card 1

Optional Configuration

Probe N05/90 ° (5MHz) Probe N07(7MHz)
Probe HT5(5MHz)
DataPro Software Communication Cable

Model	Freq MHz	Diam mm	Measuring Range	Lower limit	Description
P5EE	5	12	Echo-Echo mode: (3～30)mm for	Φ20mm×3.0mm	Trough Coating Measurement
N05	5	10	1mm～600.0mm（In Steel）	Φ20mm×3.0mm	Normal Measurement
N05 /90°	5	10	1mm～600.0mm（In Steel）	Φ20mm×3.0mm	Normal Measurement
N07	7	6	0.65mm～200.0mm（In Steel）	Φ15mm×2.0mm	For thin pipe wall or small curvature pipe wall measurement
HT5	5	14	1～600mm （In Steel）	30mm	For high temperature (lower than 300℃) measurement.