

Ultrasonic thickness gauge MT200

MT200 is a digital ultrasonic thickness gauge. Based on the same operating principles of sonar, the MT200 is able to measure the thickness of different materials with precision to a hundredth of a millimeter. Suitable for a wide range of non-metallic materials and metal.

Key Features:

- It can measure the thickness of a wide range of materials including metals, plastics, ceramics, composites, epoxies, glass and other conductive materials of ultrasound.
- There are 4 different types of probes for special applications, such as coarse or materials at high temperatures.
- Extruded aluminum body for use in harsh conditions.
- Self calibration, can calculate the exact ultrasound velocity in specific material using a thickness known sample.
- 2-point calibration.
- 2 methods of measurement: single-point or continuous.
- Coupling indicator.
- Battery level indicator.
- Auto-off to save battery.
- Optional software for data transfer to PC.
- Optional mini oprinter for printing test reports (via RS232)



Specifications

Display:	128x64 LCD with backlight
Measuring range:	0.75 ÷ 300mm (in steel, depending on probe used)
Measuring range:	0.75 ÷ 230 mm with the probe included in the standard supply
Ultrasound velocity range:	1000 ÷ 9999 m/s
Display resolution:	0.1/0.01 mm (selectable)
Accuracy:	± (0.5% + 0.04) mm
Measurement Units:	in mm/inch (metric or imperial selectable)
Update Frequency:	The value on display is updated 4 times per second in single measurement, 10 times per second in continuous measurement.
Memory	1980 stored value, divided into 20 files.
Setting limits:	Ability to set the upper and lower limits with alarm systems to overcome the threshold.
Power:	Powered by 2 AA batteries AA (LR06). 100 hours typical battery life with backlight off.
PC Interface	RS-232
Dimensions:	132x76 mm (345g)

Standard Configuration:

- Main unit
- Transducer N05/90°
- Coupling liquid, specific for ultrasounds
- Screwdriver
- Carrying Case
- User 's Manual

Optional accessories

Probe Options:

Model	Range	Typical Application
N02	3.0 ÷ 300.0mm on steel 40mm on gray irons	2.5MHz with 14mm diameter. For materials with a very thick and high dispersion.
N05	÷ 1.2mm 230.0mm on steel	5MHz with 10mm diameter for standard sizes
N05/90°	÷ 1.2mm 230.0mm on steel	5MHz with 10mm diameter for standard sizes (90° to axis of the cable)
N07	÷ 0.75mm 80.0mm on steel	7MHz with 6mm diameter for measuring the thickness of small tubes or small spaces.
HT5	3 ÷ 200mm on steel	5MHz with 12mm diameter for measurements on high temperature (300 ° C)

Other Options:

- Thermal printer, connected to the instrument via RS-232
- Data processing software Datapro

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