

Ultrasonic Thickness Gauge NOVOTEST UT-1

Description of ultrasonic thickness gauge NOVOTEST UT-1

Ultrasonic Thickness Gauge NOVOTEST UT-1 is designed for rapid non-destructive testing of thickness:

- products made of various metals, alloys and other materials;
- thickness of glass, plastic, composite and other products from non-metallic materials;
- the walls of the tanks, pipes, casing parts, sheets, overhead, transportation, and other structures, including the corroded surfaces, pitted, with scum, etc.
- thickness of the products during their production and operation;
- metal thickness for diagnostic and expert work

with one-way access to the object of control



Measuring the thickness of the motor shaft



Measure the wall thickness of the corroded surface



Measurement of wall thickness of the plastic pipe

The advantages of ultrasonic thickness gauge NOVOTEST UT-1

- wide range of measured thicknesses
- convenience and ease of measurement
- minimum number of controls
- select the type of sensor used with one button
- preset velocity of ultrasound
- graphical display with backlight
- compensatio of probe delay
- control of the battery

Features of ultrasonic thickness gauge NOVOTEST UT-1

- ease of operation and ease of setup
- mapping the presence of acoustic coupling on the graphic display
- fixation of the last measurement result in the removal of the transducer surface

Ultrasonic method for measuring the thickness

Thickness gauge NOVOTEST UT-1 operates on the principle of measuring the propagation time of ultrasound in the product. The pulse generator produces a high frequency electrical pulses that excite the piezoelectric transducer (Probe). At the same transducer converts electrical signals into the elastic (mechanical) vibrations - sound waves. These waves propagate from the surface to reflect the input (bottom) of the surface and re-taken and converted into an electrical signal by means of PET. The instrument calculates the thickness.

Specifications of ultrasonic thickness gauge NOVOTEST UT-1

The range of measured thicknesses (depending on sensor type), mm	0.8 ... 300
Setting range of the ultrasonic velocity, m / s	1000-9999
Discrete readings on the digital indicator, mm	0.1
Response time, with no more than	2
The basic error of measurement, mm	± (0,001 T 0.1)
Overall dimensions, mm	120h60h25
Operating temperature range, ° C	-5 to +40
Power	2 AAA batteries
Time of continuous work hours, not less	10
Weight of electronic unit with battery, no more, kg	0.2

Standart set of ultrasonic thickness gauge NOVOTEST UT-1

- electronic unit with gauge transducers (number and type of agreement with the buyer, depending on the desired range of controlled thickness)
- 2 batteries with charger
- passport, user manual,
- cables
- packing containers.