

Ultrasonic Thickness Gauge NOVOTEST UT-1M



◆Description of Ultrasonic Thickness Gauge NOVOTEST UT-1M

Ultrasonic Thickness Gauge NOVOTEST UT-1M 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 retaken and converted into an electrical signal by means of UT-probe. The instrument calculates the thickness.

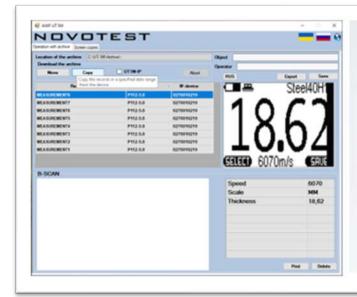
Ultrasonic method is appropriate for measuring the thickness:

- 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-side access to the object of control.

◆Advantages of Ultrasonic Thickness Gauge NOVOTEST UT-1M▶

- Ease of operation and ease of setup;
- Saved data can be transmit to PC;
- Material selection and automatic setting of ultrasound velocity;
- Large graphic display of high contrast and backlight;
- Mode "ECHO-ECHO" (Through-Coating) allows to measure through paint (new);
- Mapping the presence of acoustic coupling on the graphic display
- Display of measured thickness in mm and inches:
- Convenient menu in the device;
- Wide choice of UT probes with preset settings in the device;
- Modes of statistical processing of measurements:
- Ability to restore factory calibrations;
- Ability to adjust all parameters of the acoustic path;
- Ability of further adjusting the user gain directly from the measurement mode;
- Wide range of testing;
- Mode of audible and visual alarm when break the preset ranges;
- Minimum number of controls.







Specifications of Ultrasonic Thickness Gauge NOVOTEST UT-1M▶

Range of measured thicknesses (depending on the probe's type), mm	0,8 500 or more
Setting range of ultrasound velocity, m/s	1000-17000
Resolution, mm	0,01
Response time, with no more than, s	1
Basic measurement accuracy, mm	±(0,01T+0,05)
Modes, mm	Normal, Statistic, ECHO, ECHO- ECHO (Through-Coating)
Operating temperature range, ° C	From -20 to + 40
Power supply	2 pcs AA batteries
Time of continuous work hours, not less, h	10
Weight of electronic unit with battery, no more, kg	0,2
Interface language and menu	English, Spanish, Russian

■Available options of Ultrasonic Thickness Gauge NOVOTEST UT-1M

- Couplant
- UT probes
- "ECHO-ECHO" (Through-Coating) probes
- Calibration blocks





Standard set of Ultrasonic Thickness Gauge NOVOTEST UT-1M▶

- Electronic unit Ultrasonic Thickness Gauge NOVOTEST UT-1M
- UT probe 1 pc. (depends on the desired range of controlled thickness)
- 2 AA batteries
- Charger of batteries
- USB Cable for PC
- Calibration certificate
- Operating manual
- Case







◆Other pictures of Ultrasonic Thickness Gauge NOVOTEST UT-1M▶







