



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 thickness testing of:

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



Ultrasonic method for measuring the thickness

Ultrasonic 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 are converted electrical signals into the elastic (mechanical) vibrations – sound waves. These



waves propagate from the surface of the input to the reflective (bottom) surface, re-taken and converted into electrical signal by means of PET. After that device calculates the thickness of tested object.



The advantages of Ultrasonic Thickness Gauge NOVOTEST UT-1

- ◆ Wide range of measuring thicknesses
- ◆ Convenience and ease in operation
- ◆ Minimum number of controls
- ◆ Select the type of probe through single button
- ◆ Preset velocity of ultrasound
- ◆ Graphical display with backlight
- ◆ Compensation of probe delay
- ◆ Control of the batteries
- ◆ Mapping the presence of acoustic coupling on the graphic display
- ◆ Fixation of the last measurement result in the removal of the transducer surface



Specifications of Ultrasonic Thickness Gauge NOVOTEST UT-1

Measuring thicknesses range (depends on probe 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
Basic measurement accuracy, mm	$\pm (0,001 T \pm 0,1)$
Overall dimensions, mm	120x60x25
Operating temperature range, ° C	-5 to +40
Power supply	2 AAA batteries
Time of continuous work hours, not less, h	10
Weight of electronic unit with battery, no more, kg	0.2



Available options of Ultrasonic Thickness Gauge NOVOTEST UT-1

- ◆ Couplant
- ◆ UT-probes
- ◆ Calibration blocks



Standard set of Ultrasonic Thickness Gauge NOVOTEST UT-1

- ◆ Electronic unit Ultrasonic Thickness Gauge
- ◆ Transducer (probe) - 1 pc (depends on the desired range of controlled thickness)
- ◆ 2 batteries
- ◆ Charger
- ◆ Cables
- ◆ Operating manual
- ◆ Case

