


Ultrasonic Thickness Gauge

NOVOTEST UT-1M-IP

With dust and moisture protection up to IP67 !!!


Name	Ultrasonic Thickness Gauge NOVOTEST UT-1M-IP
Photo	

<p>Purpose</p>	<p>A special version of the ultrasonic thickness gauge <u>Novotest UT-1M</u> is designed for measuring the thickness of various materials and products with one-sided access in difficult climatic conditions – in dusty rooms, with high humidity, in the rain – when the use of conventional ultrasonic thickness gauge is impossible.</p> <p>Ultrasonic Thickness Gauge NOVOTEST UT-1M-IP is designed for rapid non-destructive thickness testing of:</p> <ul style="list-style-type: none"> ○ 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; <p>metal products for diagnostic and expert work with one-side access to the tested object.</p> <div data-bbox="347 589 1348 1037">  </div>
<p>Standards</p>	

Advantages

- **Wide range of testing. Thickness measurement range (0,8 – 1000mm)**
- **The device stores all the settings that were set before switching off**
- **Customer gain control**
- **Possibility to make V-correction of the transducer**
- Convenience and easy in operation
- **Preset velocity of ultrasound (1000 – 9999m/s)**
- **Compensation of probe delay**
- Acoustic contact indication on the graphic display
- Fixation of the last measurement result in the removal of the transducer surface
- Power supplied by standard AA batteries
- **Unique protection from dust and moisture, previously not available in the market of ultrasonic thickness gauges of general purpose. By default the device comes with a degree of dust-moisture protection IP65. Available version up to IP67 (submerged in water)**
- Unprecedented autonomy of the device – increased up to 200 hours continuous operation time of the thickness gauge
- Special rubber lining on the side surfaces of the casing facilitates the convenient retention of the thickness gauge in the user's hand;
- Device has light weight and dimensions, in comparison with similar protected thickness gauges
- Saved data can be transmit to PC
- **Material selection and automatic setting of ultrasound velocity**
- Large graphic display of high contrast and backlight
- 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
- Mode of audible and visual alarm when leaving the established ranges



Standard set	<ul style="list-style-type: none"> ○ Electronic unit Ultrasonic Thickness Gauge ○ Transducer (probe) – 1 pc (depends on the desired range of controlled thickness) ○ 3 AA batteries ○ Charger ○ Cables ○ Calibration certificate ○ Operating manual ○ Case 																								
Specification	<table border="1"> <tr> <td>Range of measured thicknesses (depending on the probe's type), mm</td><td>0,8 ... 1000</td></tr> <tr> <td>Setting range of ultrasound velocity, m/s</td><td>700-17000</td></tr> <tr> <td>Resolution, mm</td><td>0,01</td></tr> <tr> <td>Response time, with no more than, s</td><td>1</td></tr> <tr> <td>Basic measurement accuracy, mm</td><td>$\pm(0,01T+0,05)$</td></tr> <tr> <td>Overall dimensions, mm</td><td>148x90x26</td></tr> <tr> <td>Operating temperature range, ° C</td><td>From -20 to + 40</td></tr> <tr> <td>Power supply</td><td>3pcs AA batteries</td></tr> <tr> <td>Time of continuous work hours, not less, h</td><td>120 (up to 200 hours with minimum settings)</td></tr> <tr> <td>Weight of electronic unit with battery, no more, kg</td><td>0,35</td></tr> <tr> <td>Interface language and menu</td><td>Russian, English, Spanish</td></tr> <tr> <td>Degree of dust and moisture protection</td><td>IP65 (can be increased to IP66 and IP67)</td></tr> </table>	Range of measured thicknesses (depending on the probe's type), mm	0,8 ... 1000	Setting range of ultrasound velocity, m/s	700-17000	Resolution, mm	0,01	Response time, with no more than, s	1	Basic measurement accuracy, mm	$\pm(0,01T+0,05)$	Overall dimensions, mm	148x90x26	Operating temperature range, ° C	From -20 to + 40	Power supply	3pcs AA batteries	Time of continuous work hours, not less, h	120 (up to 200 hours with minimum settings)	Weight of electronic unit with battery, no more, kg	0,35	Interface language and menu	Russian, English, Spanish	Degree of dust and moisture protection	IP65 (can be increased to IP66 and IP67)
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Available options	<ul style="list-style-type: none"> ○ Couplant ○ <u>UT-probes</u> ○ <u>Calibration blocks</u> 