



Ultrasonic Thickness Gauge

NOVOTEST UT-3K-EMA

With USB connection !!!

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| Name | Ultrasonic Thickness Gauge NOVOTEST UT-3K-EMA |
| Photo |  |
| Purpose | <p>The thickness gauge UT-3K-EMA is designed for use in industrial networks, sheet metal products, rods and other products made of steel, as well as aluminum and other metals, without using of couplant, without preliminary surface preparation, with space between the probe and metal up to 3 mm. As a gap may be a layer of rust, a layer of salt deposits or other non-conductive coating (paint, varnish, enamel, plastic).</p>  |

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| | <p>The readings of the device are slightly affected by skew, in contrast to traditional thickness gauges with piezoelectric transducers, which require fixation of the probe in a certain position. The thickness gauge UT-3K-EMA uses a special data processing algorithm that allows the thickness to be measured correctly in the presence of disturbing factors such as metal anisotropy, the presence of several reflectors, and the presence of external interference.</p> <p>The algorithm developed by our specialists allows to reduce the human factor and simplify the interface of the device. Connecting a tablet, smartphone or other device based on Android OS allows user to expand the capabilities of the UT-3K-EMA thickness gauge to the level of a modern flaw detector, with the ability to display and save A-scan, B-scan, the ability to work with strokes, choose the thickness measurement mode, parameters signal processing, etc.</p> |
| Standards | |
| Advantages | <ul style="list-style-type: none"> ○ Thickness measurement (steel) – 2...60 mm ○ Convenience and easy in operation ○ Preset velocity of ultrasound (1000 – 9999m/s) with 1 m/s step ○ Without application of couplant and advance surface preparation, through air gap or a layer of rust, dirt, salt or other non-conductive coatings (paint, varnish, enamel, plastic, etc.) up to 6 mm ○ Allows user to put the probe not exact perpendicular to the surface, but up to 25 degrees ○ Allows to reduce the human factor and disturbing factors such as metal anisotropy, the presence of several reflectors, and the presence of external interference ○ User can connect gauge to a tablet, smartphone or other device based on Android OS. Allows user to expand the capabilities of the UT-3K-EMA thickness gauge to the level of a modern flaw detector, with the ability to display and save A-scan, B-scan, the ability to work with strokes, choose the thickness measurement mode, parameters signal processing, etc. ○ 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 ○ Shock-resistant housing with a protective silicone bumper-case ○ The device has a bright contrast LCD display ○ A-scan, B-scan, calibration settings ○ Three thickness measurement modes: <ul style="list-style-type: none"> • Automatic • Manual mode, measurements are made using maximum in the first gate • Manual mode, measurements are made using two maximums in two gates |

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| Standard set | <ul style="list-style-type: none"> ○ EMA Thickness Gauge ○ Tablet ○ batteries ○ Charger ○ Cables ○ Operating manual ○ Case  | | | | | | | | | | | | | | | | | | | | | | |
| Specification | <table border="1"> <tr> <td>Measuring thicknesses range for steel, mm</td><td>2.0...60.0</td></tr> <tr> <td>Basic measurement accuracy, mm</td><td>0.08</td></tr> <tr> <td>Permissible gap between device and testing object, mm</td><td>Up to 3</td></tr> <tr> <td>Permissible probe vertical deviation to the testing surface normal, grad</td><td>±25</td></tr> <tr> <td>Maximum measurements per second</td><td>16</td></tr> <tr> <td>Setting range of the ultrasonic velocity, m / s</td><td>1000-9999 with 1m/s step</td></tr> <tr> <td>Operating oscillation range, MHz</td><td>3...5</td></tr> <tr> <td>Excitation wave type</td><td>Transverse wave, radial-polarized wave in surface plane of testing object</td></tr> <tr> <td>Operating temperature range, ° C</td><td>-20 to +50</td></tr> <tr> <td>Overall dimensions, mm</td><td>163x39x32</td></tr> <tr> <td>Time of continuous work hours, not less, h</td><td>5</td></tr> </table> | Measuring thicknesses range for steel, mm | 2.0...60.0 | Basic measurement accuracy, mm | 0.08 | Permissible gap between device and testing object, mm | Up to 3 | Permissible probe vertical deviation to the testing surface normal, grad | ±25 | Maximum measurements per second | 16 | Setting range of the ultrasonic velocity, m / s | 1000-9999 with 1m/s step | Operating oscillation range, MHz | 3...5 | Excitation wave type | Transverse wave, radial-polarized wave in surface plane of testing object | Operating temperature range, ° C | -20 to +50 | Overall dimensions, mm | 163x39x32 | Time of continuous work hours, not less, h | 5 |
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| Available options | <ul style="list-style-type: none"> ○ Couplant ○ <u>UT-probes</u> ○ <u>Calibration blocks</u>  | | | | | | | | | | | | | | | | | | | | | | |
| Warranty | Standard 3-year warranty. Extended warranty up to 5 years is also available | | | | | | | | | | | | | | | | | | | | | | |
| Payment | 100% in advance. TT, WU, PayPal, Credit card | | | | | | | | | | | | | | | | | | | | | | |
| Delivery | CIP, FCA etc. DHL, TNT, FedEx, UPS etc. Shipment - within 1 week | | | | | | | | | | | | | | | | | | | | | | |
| Discounts | Up to 36% for dealers | | | | | | | | | | | | | | | | | | | | | | |

MEDIA:

Company info:

Our company **NOVOTEST** designs and manufactures instruments for NON-DESTRUCTIVE QUALITY TESTING. We are located in Ukraine, 5 Spasskaya str., Novomoskovsk.

NOVOTEST produces instruments for measuring a wide range of parameters and quality control for the majority of products:

- metal hardness of various types;
- coatings thickness;
- ultrasonic flaw detectors;
- ultrasonic thickness gauges;
- instruments for magnetic testing;
- construction materials quality monitoring instruments;
- environmental control equipment and many other devices.



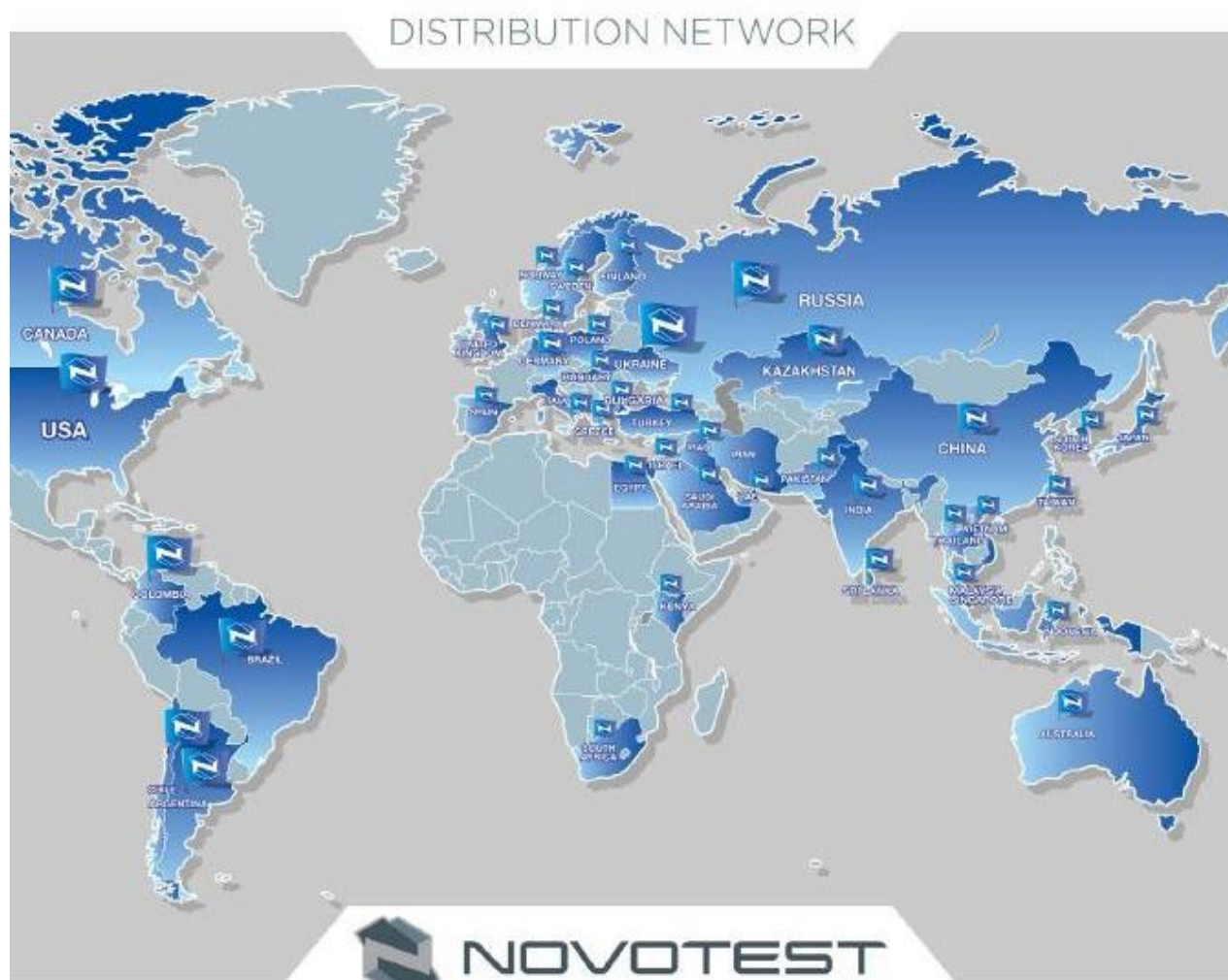
Our benefits:

- More than 10 years on NDT market;
- Leading manufacturer of NDT devices in Ukraine;
- Representative offices in more than 30 countries around the world;

- All our devices are covered by standard 3-year warranty. Extended warranty up to 5 years is also available;
- Powerful development center;
- Constant expansion of the product range;
- Manufacturing customized NDT systems;
- Solutions for non-standard NDT tasks;
- After-sales service and technical support;
- Individual approach for cooperation with dealers.

For any information, please feel free to contact us!

We will be glad to answer for any questions!



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