



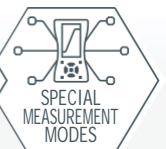
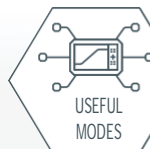
NOVOTEST

Ultrasonic Testing

Ultrasonic Thickness Gauges



ULTRASONIC TESTING

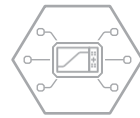


Ultrasonic Thickness Gauge with A-scan UT-2A

That is a powerful, lightweight, and ergonomic thickness gauge with a shock-resistant case and rubber protectors. As a modern industrial general-purpose thickness gauge, it is an excellent choice for expert ultrasonic testing both in the laboratory and the field.

Based on the obtained sound transit time in the material - the device calculates the thickness under the velocity of ultrasound that propagates in the test object. The device displays the thickness value on the screen and the measurement takes only a second.

Another feature of ultrasonic thickness gauges is the testing through thin coatings such as paint. This allows users to test thickness without causing damage to the test object.



USEFUL MODES



A-scan of the thickness gauge allows displaying the waveform of the signal for subsequent analysis. Viewing the reflected signals on the screen, users can eliminate false triggering and adjust the device as correctly and accurately as possible.

B-Scan. The profile of the inner surface of the test part. That mode allows to visualize profile (cross-section) of test objects and set rejection.

Control mode. This mode indicates if the measured value exceeds the limits, thru lights or sound signal. This makes testing easier and minimizes errors.



PORTABLE, LIGHTWEIGHT, AND SHOCK RESISTANT



Ultrasonic thickness gauge UT-2A is a lightweight device that is useful in both difficult outdoor conditions and in workshops. The special rubberized housing will protect it against damage from drops.



EASY-TO-USE

Digital thickness measurement makes UT-2A suitable not only for professional inspectors but also for those who never used thickness gauges before.

The device display only the thickness value on its screen, similar to basic models.



SPECIAL MEASUREMENT

The device implements all manual modes of thickness measurement for professional users:

- **ECHO** with adjustable gates (places of measurement).
- **ECHO-ECHO** – this mode allows to measure the thickness of parts through coatings without surface preparation.
- **PEAK-PEAK** – the mode similar to the ECHO-ECHO mode.

The difference is that the trigger moment is calculated not by zero crossing, but by the maximum of the signals in the gate.



ULTRASONIC THICKNESS GAUGE NOVOTEST UT-1M

Is used for non-destructive thickness testing of objects with one-way access. This method is currently the most used for thickness measurement tasks. The main advantages of this model are the easy-to-use design and menu, a wide measurement range, multiple useful modes and features, which makes it the most popular model.



ULTRASONIC THICKNESS GAUGE NOVOTEST UT-1M-IP

In addition to all the advantages of the UT-1M model, this is the special ultrasonic thickness gauge designed to do its job in harsh environments such as dusty rooms, high-humidity places, or in the rain or even under water. It proves helpful when other thickness gauges cannot be used or are restricted for application.



ULTRASONIC THICKNESS GAUGE NOVOTEST UT-1M-ST

This is a special version of the UT-1M ultrasonic thickness gauge, in an aluminum alloy metal case. The durable enclosure allows for the operation of the thickness gauge in any shop and field conditions. This device will survive even inaccurate use. At the same time, it has lightweight, and has all the same functionality as the common UT-1M model.



Specification of Ultrasonic Thickness Gauges

	UT-2A	UT-1M	UT-1M-IP	UT-1M-ST
Measuring thicknesses range for steel, mm	0,4 – 1500 (depends on probe)	0,45 – 1500 (depends on probe)		
Resolution, mm	0,01			
Basic measurement accuracy, mm	$\pm (0,01 \cdot T + 0,05)$			
Basic probes / range for steel	2,5 MHz / 2,5 – 1000 mm 5 MHz / 0,8 – 300 mm 10 MHz / 0,45 – 75 mm			
Optional probes / range for steel	1,25 MHz / 4 – 1500 mm 2 MHz / 3 – 1200 mm High-temperature 5MHz (up to 250 °C) / 0,8 – 300 mm Echo-Echo 5MHz for through-coating measurements / 3,5 – 26 mm			
Compatibility with Active EMAT Transducer EMAT-A1	Yes	No		
Compatible probe types	Dual-element Single-element	Dual-element		
Operating modes	Normal A-scan B-scan Manual mode Control mode	Normal B-scan Control mode		
Measurement methods	Echo Echo-Echo Peak-Peak Zero-crossing	Echo Echo-Echo		
Measurement units	mm inch			
Display	Color, 3,5 inch, 480*320	Monochrome, 2,5 inch, 128*64		
Menu languages	English Ukrainian Russian (other languages optional)	English Spanish Ukrainian Russian (other languages optional)		
Body type/ Dust and moisture protection level	Metal, durable / Standard for shop and field operation	Plastic, with shockproof silicone case / Standard for shop and field operation	Plastic, sealed / High – optionally water immersion up to 1m deep for 30 min	Metal, durable / Standard for shop and field operation
Saving of the settings for different probes	Yes			
Compatibility with probes of other manufacturers	Yes			
V-path correction and TVG adjusting for the user's probes	Yes			
Storage of measurement results	7000 and more (Limited only by the memory card)	128	128	128
PC cable connection (via www.novotest.info)	Yes			
Smartphone Wireless connection (via NOVOTEST Lab)	No	Optional	Optional	No
Charger type	Any USB socket (charger adapter, PC, power bank, etc.)	External charger for batteries	Any USB socket (charger adapter, PC, power bank, etc.)	External charger for batteries
Battery	Built-in Li-ion	2pcs standard AA batteries	3pcs standard AA batteries	2pcs standard AA batteries
Electronic unit weight, no more, kg	0,5	0,25	0,35	0,35
Dimensions (L x W x H)	165x90x50mm	122x76x37	160x90x28	130x90x40
Minimum time of continuous work, h	10	25	25	25
Operating temperature range, ° C	-20 to +40			

sales@novotest.biz
+380 67 593 5977
novotest.biz

 **NOVOTEST**
QUALITY TESTING DEVICES

STANDARD PACKAGE:

- Electronic unit
- Probe - 1 pc
- AA batteries*
- Lemo-Lemo cable
- USB cable for PC
- Charger
- Operating manual
- Calibration certificate
- Case

* for UT-1M, UT-1M-IP, UT-1M-ST

