

ULTRASONIC THICKNESS GAUGE **ADL UT25**

The ultrasonic thickness gauge UT 25 is designed to measure the thickness of products and structures made of metal alloys and isotropic non-metallic materials with one-sided access to them.

made in
TURKEY



ADL
series

Ultrasonic thickness gauge ADL UT25

Works with a variety of dual-coupler transducers at frequencies from 2.5 MHz to 10 MHz, providing high reliability of results in laboratory, shop and field conditions.

The device is implemented on a modern electronic base, equipped with a bright color screen and built-in memory for storing settings, characteristics and results. It has a simple and intuitive interface.

One of the advantages of the device is the work with specialized high-temperature sensors, which allow one-sided control of parts with a surface temperature of up to 350°C. The objects of control can be metal pipes or tanks without taking them out of operation, various steam pipelines, metal bars and cast products before they are cooled.

Simple and quick calibration allows you to adjust the thickness gauge within 10 seconds. The instrument can be calibrated against a reference sample as well as against a known thickness on any material.

Lightweight and comfortable shockproof case provides dust and moisture protection in various operating conditions, resistance to falls from a height of up to 2 meters.

The device is used to quickly measure the thickness of metal and non-metal products (sheets, containers, pipes, pipelines, bridge, hull, transport and other structures), during operation to determine their corrosion state or after manufacture. It is used in energy, metallurgical, machine-building, shipbuilding, transport or other industrial enterprises.

Features of the ADL UT25 thickness gauge:

- Wide functionality, which includes modes: A-scan, B-scan;
- Thickness digital value mode:
 - The limit mode signals when the thickness values go beyond the set limits;
 - The differential measurement mode shows the difference between the set value and the measured thickness;
- High sensitivity;
- Ease of use;
- Intuitively simple interface;
- Measurement methods: Echo-Echo-Echo and Pulse - Echo;
- Ability to adjust the sensitivity;
- Work with specialized high-temperature sensors up to 350°C;
- Measurement range from 0.6 to 500 mm;
- Gain adjustment capability;
- Flexible sensor settings;
- Bright color screen;
- Ability to record results and transfer data to a computer;
- Large amount of memory;
- Built-in Li-Pol battery provides up to 8 hours of operation;
- Preset library of speeds for various materials;
- Small size and lightness;
- Rubberized dust and moisture-proof housing;
- Lemo-Lemo connectors that comply with all international standards;
- Acoustic contact indication;
- Automatic shutdown.

Main technical characteristics:

| Parameter | Meaning | Parameter | Meaning |
|--|--|--|---|
| Measuring principle | ultrasound | Settings | Correction of the setting "0", gain parameters of the path, adjustment to a specific material, automatic shutdown time (1 - 60 minutes), brightness, setting of rejection levels during analysis. |
| Controlled thickness range (for steel) with dual transducers | 0.6 - 500 mm | Time of continuous work | up to 8 hours, low battery alarm |
| Details of complex shape | The minimum radius of curvature of the product is 10 mm | Power supply | Li-pol battery |
| Ultrasound propagation speed | 1000 – 9999 m/s | Dimensions | 141x73x32 mm; |
| Measurement resolution | 0,1; 0,01 mm | Weight | 240 g |
| Basic measurement error by ranges: | | Terms of Use | Temperature: -10 to +50°C |
| T*=0,6...10 | ±(0,01T+0,03) mm | Degree of dust and moisture protection | IP-54 |
| T*=10...300 | ±(0,01T+0,1) mm | | |
| Display | Diagonal 2.4" TFT with a matrix of 240x320 pixels | | |
| Memory | Up to 5000 measurements with the ability to sort data by date and time | | |
| PC connection | USB-C | | |