ADELIX
TURKEY

UNIVERSAL HARDNESS TESTER ADL-DU110
intended for monitoring the hardness of metal products.

The **ADL-DU110** hardness tester combines two hardness measurement methods: ultrasonic and dynamic. This makes the device a versatile and effective solution for input, inter-operational and output quality control of materials.

The universal hardness tester is used for various tasks. It is well applicable for measuring carbon and structural steels, surface-hardened products, heat-resistant, corrosion-resistant, stainless steels, galvanized coatings, hardfacing, products of complex configuration, thin-walled and compact products.



made in TURKEY











DYNAMIC SENSOR

To measure the hardness of massive products with poorly prepared surfaces and a coarse-grained structure, it is recommended to use a type G dynamic probe. It has a low sensitivity to product curvature and surface roughness. The device can be equipped with additional replaceable sensors with different dimensions, spring stiffness and indenter stiffness.

ULTRASONIC SENSOR

With the help of an ultrasonic sensor, it is possible to easily solve the problems of measuring the hardness of grooves, surfaces of small radius, hard-to-reach places, products of complex shape and small parts. It is well applicable for measuring the hardness of the mirror surfaces of shaft journals, blades, gear teeth, since it has a small imprint of the identifier.

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ADL-DU110 IS A UNIVERSAL HARDNESS TESTER THAT WILL SOLVE ALMOST ALL TASKS RELATED TO EXPRESS HARDNESS CONTROL WITH HIGH ACCURACY!

FEATURES OF THE HARDNESS TESTER ADL-DU110:

- Dust and moisture resistant housing.
- The intuitive interface is organized according to the "PLUG AND PLAY" principle.
- The color display with adjustable backlight clearly shows measurements in bright sunlight and in low light.
- A notification is provided about the output of the measurement result beyond the established limits.
- A unique system of statistical data processing for the operational analysis of measurement results.
- Large memory capacity - allows you to enter and save more than 500 custom scales and view the history of all measurements taken after work is completed.
- Single point calibration function.
- Independent programming of additional scales.
- Saving all measurement results by date and time. View results in the form of tables and graphs for a detailed analysis of the obtained values.
- Stable operation in difficult climatic conditions.

SPECIFICATIONS

Measurement range	by Rockwell	according to Brinell	according to Vickers
The range of measurements on the main scales	20 – 70 HRC	30-650 HB	230 – 940 HV
Error measurements (Regulated standards ISO)	± 2 HRC	in the range 90-180 HB ± 10 HB in the range 180-250 HB ± 15 HB in the range 250-460 HB ± 20 HB	in the range 240-500 HV ± 15 HV in the range 500-800 HV ± 20 HV in the range 800-940 HV ± 25 HV
Diameter site for installation of the sensor	For an ultrasonic sensor: - from 1 mm on the plane, - from 5 mm in a blind hole (groove)		For an dynamic sensor: - from 10 mm on the plane
Roughness	Ultrasonic sensor: 1.6 Ra		Dynamic sensor: for sensor type "D" - 3.2 Ra for sensor type "G" - 7.2 Ra for sensor type "E" – 3.2 Ra
Discarding from false readings (for higher reading accuracy)	Exists		
Conversion of scales	It is possible to convert the measured hardness into different scales		
Calculations	Average value for 1 - 20 measurements; Minimum, maximum, average value; Search for incorrect measurement results		
Programmable scales	More than 500 additional scales		
Construction of graphs	All points from the series that were taken into account in the calculation of the average value		
Device body	Shockproof plastic body, protected from falls with rubberized inserts		
Display	LCD TFT 3.5" 320x480 px		
Language	Russian, Ukranian, English		
Communication with a PC	USB, the ability to configure and process results		
Power supply	From the built-in battery		
Overall dimensions	185 × 93× 36 mm		
Working temperature	- 20 ... +45 °C		
Weight	0.35 kg		

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