



**ADELIX**  
TURKEY

# ADL-D100

## Portable Leeb Hardness Tester

Dynamic hardness tester **ADL-D100** is specially designed for express-control of hardness of metal products.

The **ADL-D100** is a versatile solution for accurate portable hardness testing and can be a reliable tool in your claims work. Especially when situations arise when other devices do not provide sufficient accuracy when measuring the hardness of parts.

**ADL-D100** will be an affordable and reliable solution to problems when there are disagreements between workshops or contractors in the results obtained and when accepting parts, since the device measures with an accuracy as close as possible to stationary hardness testers.

An intelligent averaging mode, a unique statistical processing system and flexible memory organization allow for the most accurate hardness measurements.

The device allows you to calibrate one or two exemplary test blocks and one-point calibration.

For clarity of results, graphs are provided on the hardness tester display. Equipping the device with additional positioning attachments makes the **ADL-D100** hardness tester universal in use.

For operation in a workshop, the device is manufactured in a rugged case, equipped with a bright color 3.5" LCD TFT display with a user-friendly interface.



### MAIN ADVANTAGES:

**Individual solutions** - allows programming, in addition to standard calibrations, a large number of user calibrations, i.e. create special scales according to standard firmness measures of the enterprise (specific customer material).

**Modernity** - made on a modern electronic base. This allows you to implement more possibilities for software processing of results using different methods and algorithms.

**Expertise** - the creation, storage, recording and adjustment of specialized scales for various materials make this device universal in use between different workshops within the enterprise and between third-party organizations.

**Mini-computer** - the device is a database on specific various materials of the enterprise and allows you to accumulate a knowledge base on the scales of these materials.

**Reliability** - accurate, modern and reliable in use. Warranty and post-warranty service is carried out promptly on the basis of the service center.

**Accuracy** - a modern element base and a high-quality sensor allow high-precision measurements according to programmed calibrations, as close as possible to the accuracy of stationary hardness testers.

### Adelix Turkey

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## SPECIFICATIONS

Measuring range	by Rockwell	according to Brinell	according to Vickers
Measurement range on main scales	20 – 70 HRC	90 – 460 HB	230 – 940 HV
The ability to add additional scales:			
on soft materials		20 – 90 HB	
on solid materials		450-656 HB	
Measurement error	±2 HRC	in the range 90-150 HB ± 10 HB in the range 150-300 HB ± 15 HB in the range 300-450 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
Sensor mounting pad diameter	On a plane of 21 mm (6 mm with the support washer removed) for the sensor D		
Programmable scales	Additional scales over 100		
Calculations	Average value for 1 - 20 measurements Minimum, maximum, average Search for results of incorrect measurements		
Plotting	All points from the series that were taken into account in the calculation of the mean		
Display	LCD TFT 3.5" 320x480 px		
Language	Russian, Ukrainian, English		
Memory size	128 MB (Ability to save up to 500 calibrations)		
PC communication	USB, the ability to customize and process results		
Roughness	for sensor type "D" - 3.2 Ra for sensor type "G" - 7.2 Ra for sensor type "E" – 3.2 Ra		
Nutrition	Rechargeable		
Dimensions	150 × 70 × 45 mm		
Weight	0.3 kg		

## CONTENTS OF DELIVERY

Parameter	Value	Parameter	Value
Measuring unit	1 p	Carrying bag	1 p
Type D sensor	1 p	Operation manual	1 p
The cable to the sensor	1 p	Verification certificate	1 p
PC connection cable	1 p	The passport	1 p
Charger	1 p	Hardness measuring scales	by agreement

## ADDITIONAL EQUIPMENT:

The device can be equipped with specialized positioning tips for measuring hardness on uneven surfaces.

In addition to the standard "D" type sensor, the supply of "G" type sensors for surfaces with high roughness and light "E" type sensors is available.

The company can supply hardness blocks according to Rockwell, Brinell and Vickers, as well as certified standard hardness blocks of the enterprise SMTP 1, 2.

For surface preparation, the device can be equipped with a grinder with a set of consumables.

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