



HARDNESS TESTER

METERDI MR-HD700/ MR-HD700 WITH NABL

S P E C I F I C A T I O N

Measurement range for the main scales		
Rockwell	20 – 70 HRC*	
Brinell	30 – 650 HB*	
Vickers	230 – 940 HV*	
Measurement error	Subject to following recommendations *	Requirements of ISO and ASTM standards
Rockwell	±0.2 HRC	±2 HRC
Brinell, in the range90-180 HB180-250 HB250-460 HB	± 3 HB	±10 HB±15 HB±20 HB
Vickers in the range240-500 HV500-800 HV800-940 HV	± 3 HV	+/- 15 HV+/- 20 HV+/- 25 HV
Diameter of the surface for installing the sensor		
For the ultrasonic sensor	– from 1 mm on the plane,from 5 mm/0.197" in a blind hole (groove)	
For the dynamic sensor:	from 14 mm/0.551" on the plane	
The recommended roughness of the controlled product		
For a dynamic sensortype "D"type "G"	3.2 Ra7.2 Ra	
For an ultrasonic sensor	1.6 Ra	
Algorithm of false values	Yes	
Materials	Ultrasonic sensor (UCI) – pre-calibrated for steel	
	Dynamic sensor – pre-calibrated for steel, cast iron, stainless steel, aluminum, bronze, brass, and copper	
	Additional user materials for calibration	
Calculations	Average value for 1-20 measurements;Minimum, maximum, average values;Algorithm for rejecting incorrect measurements	
Scale conversion	Conversion of measured hardness into different scales	
Programmable scales	Additional scales beyond 100	
Construction of graphs	All points from the series that were considered in the calculation of the mean value	
Language	Ukrainian, English, Russian	
Memory capacity	128Mb (Possibility of saving more than 1000 measurements)	
Device body	Impact-resistant plastic casing with a rubber bumper (fall protection)	
Display	LCD TFT 3.5" 320×480 px	
PC connection	USB, results processing, report generation	
Power supply	Rechargeable, Li-Pol, 3.7V 3000mAh	
Work without recharging	9 hours	
Operating temperature	-10...+45 °C, no condensation	
Overall dimensions	185 x 98 x 42 mm (including rubber inserts)	
Weight	0.35 kg	



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OPTIONAL ADDITIONAL SENSORS



«UCI-L»

«UCI»

«UCI-S»

«UCI-R»

«UCI-P»

