

NDT Supply.com

7952 Nieman Road
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BAQ AlphaDur II Portable Hardness Tester

Portable hardness tester according to the UCI method

- Portable hardness testing of materials
- Versatile—use in any position
- Use for thin materials > 5mm
- Automated measurement capability
- Large data memory
- Wide range of available accessories
- Predefined Materials calibrations (you can create your own custom calibrations and store them).
- High measuring accuracy
- Large easy-to-read backlit LCD display
- Simple easy-to-follow menu navigation
- Multiple harness conversions:
 - Vickers hardness values (HV)
 - Rockwell (HRC),
 - Brinell (HB)
 - Tensile Strength (Conversion according to DIN 50150)



Technical Data

Measurement Methods	Modified Vickers hardness according to the UCI method with Vickers diamond 136° according to DIN 50 159, ASTM A 1038-05 and VDI / VDE Guidelines 2616th. The measurement of the indentation test load is below.
Test Load	Depends on the UCI probe 10, 20, 30, 49 or 98 N.
Test Materials	Preferably, metals, materials calibrations in the instrument be stored. Tests on glass, ceramic and plastic are possible if comparative measurements carried out for calibration be. Minimum thickness of steel about 5 mm.
Display	3.5" Color LCD - 320 x 240 Pixels
Data Storage	32MB flash memory for about 512,000 measurements. Storage of date, time, and evaluation good/bad.
Statistics	Average, minimum, maximum and standard deviation of absolute and relative. Individual measurements can be deleted or be repeated.
Interfaces	1 x USB Slave for PC connection, 2 x USB master for printer or USB sticks, 100Base-TX (Ethernet), RS-232
AC Adapter Power Supply	100-240 VAC, NiMH battery: 4.8 V / 2700 mAh
Operating Hours	7 hour battery life, Charging time: 3 hours
Language	German, English
Temperature Range	Operating: 0 ° C to 50 ° C, storage -20 ° C to 70 ° C.
Dimensions	Instrument: 3.1x4x6.4 in. (78x198x160 mm) (H/W/D) Probe: Ø 0.78 in (19.5 mm), length 7.6 in (175 mm)
Weight	Instrument: 3 lbs. (1400 g), single probe: 0.4 lb. (190 g)

Standard delivery

- Basic unit with built-in battery
- Probe (10N, 20N, 30N, 49N or 98N) including
- Cable and calibration certificate
- AC Adapter/Charger
- Owner's Manual
- Carrying case

Special Accessories

- Probe stand
- Probe holders for flat or curved surfaces
- Alphasoft II - PC program
- Carrying Case
- Probe Handle
- Portable Mini Printer
- Special Slim Probe for measuring measurement in grooves
- Relay output for Go/NoGo evaluation
- Hardness Test Blocks

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The AlphaDur II Hardness Tester provides accurate measurement on most materials that can be tested with conventional Brinell, Vickers and Rockwell testers.

The large, easy to read, back-lit, LCD display provides easy to understand directions. Measurements are displayed in HV, HB or HRC scales. The displayed reading are based on the systems integrating 500 measurements per second for very high precision.

AlphaDur II is not only for portable use, but also for Hardness testing in production and receiving inspection.

For special applications the AlphaDur II can be calibrated using known hardness samples. The special calibration can be named and stored for later use.

Recorded measurements are stored with measurement date, time, material and Pass/Fail.

Statistical evaluation including: Mean value, minimum, maximum and standard deviation (absolute and relative). Single readings can be deleted and replaced. Data can be printed using the optional mini-printer or transferred to a PC through AlphaSoft II software.

With the small probes is possible to access the interior of components such as valve bodies and measure on curved surfaces. Measurements can be made in any position without the need for correction factors.

Data can be printed using our mini-printer or transferred to a PC through the AlphaSoft II software.

Range:			Reproducibility:		
Vickers	HV	10 – ca. 3000	Vickers	HV	± 1% of scale value
Rockwell C*	HRC	20.3 to 68.0	Rockwell C *	HRC	± 0.5 points
Rockwell B*	HRB	41.0 to 99.5	Rockwell B *	HRB	± 1.2 point
Brinell*	HB	(76) - 447	Brinell *	HB	± 1% of scale value
Tensile Strength*	N / mm ²	255 - 2180	Tensile strength *	N / mm ²	± 1% of scale value
* Conversions according to DIN 50 150 (1976)			* Conversions according to DIN 50 150 (1976)		



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