

UCI-Hardness Tester

alphaDUR mini



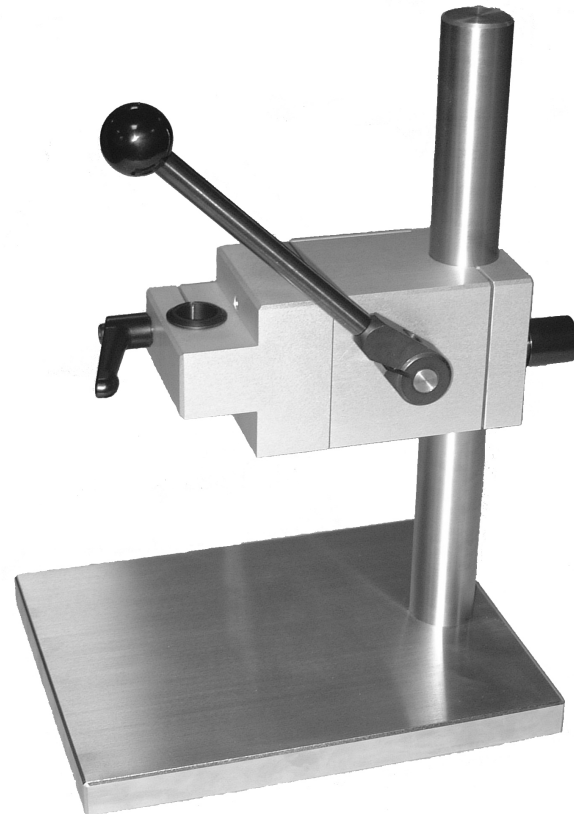
Standard Delivery Scope

- ◆ Tester with probe
- ◆ Probe cable
- ◆ USB charger with connection cable
- ◆ Case
- ◆ Manual
- ◆ Certificate

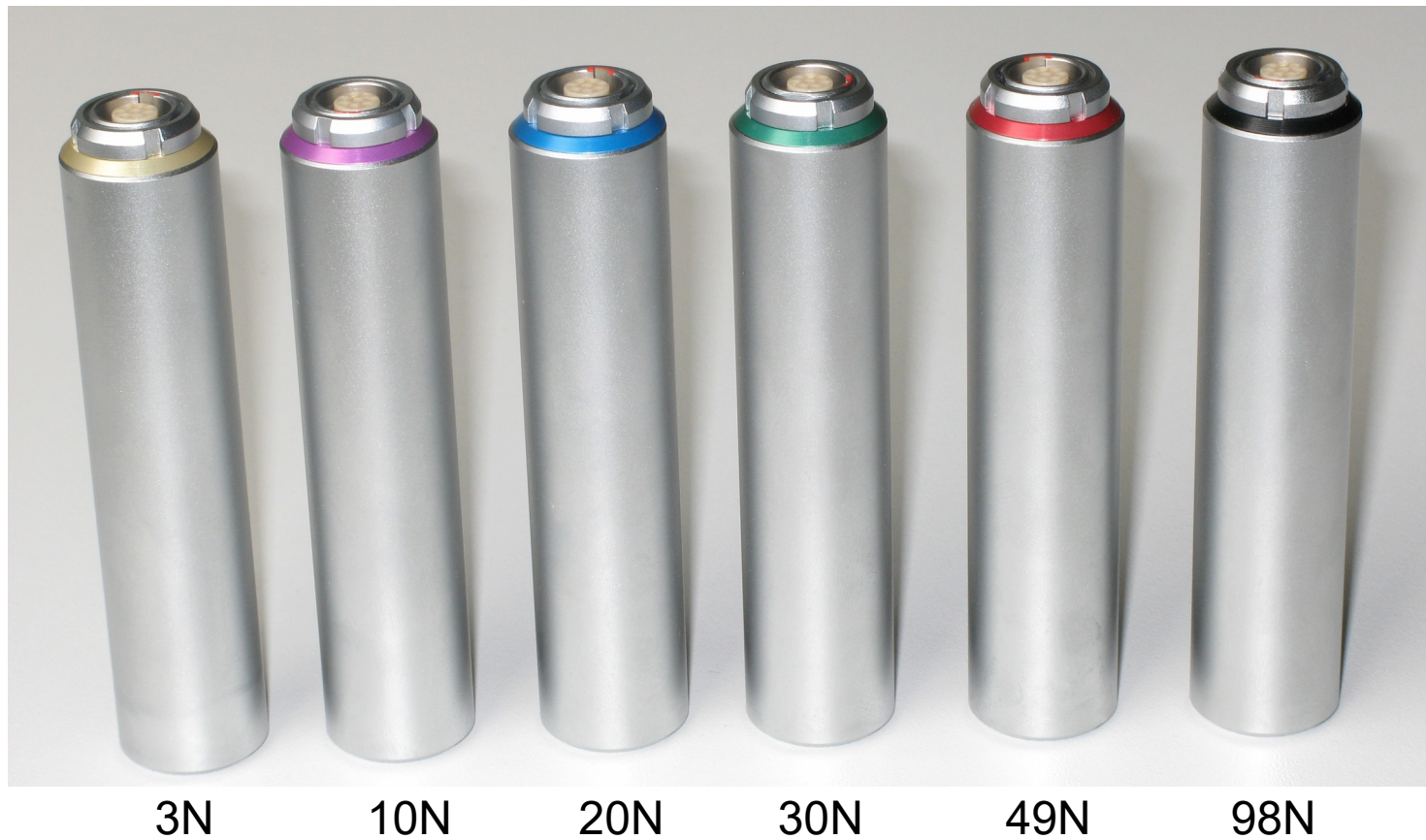


Accessories

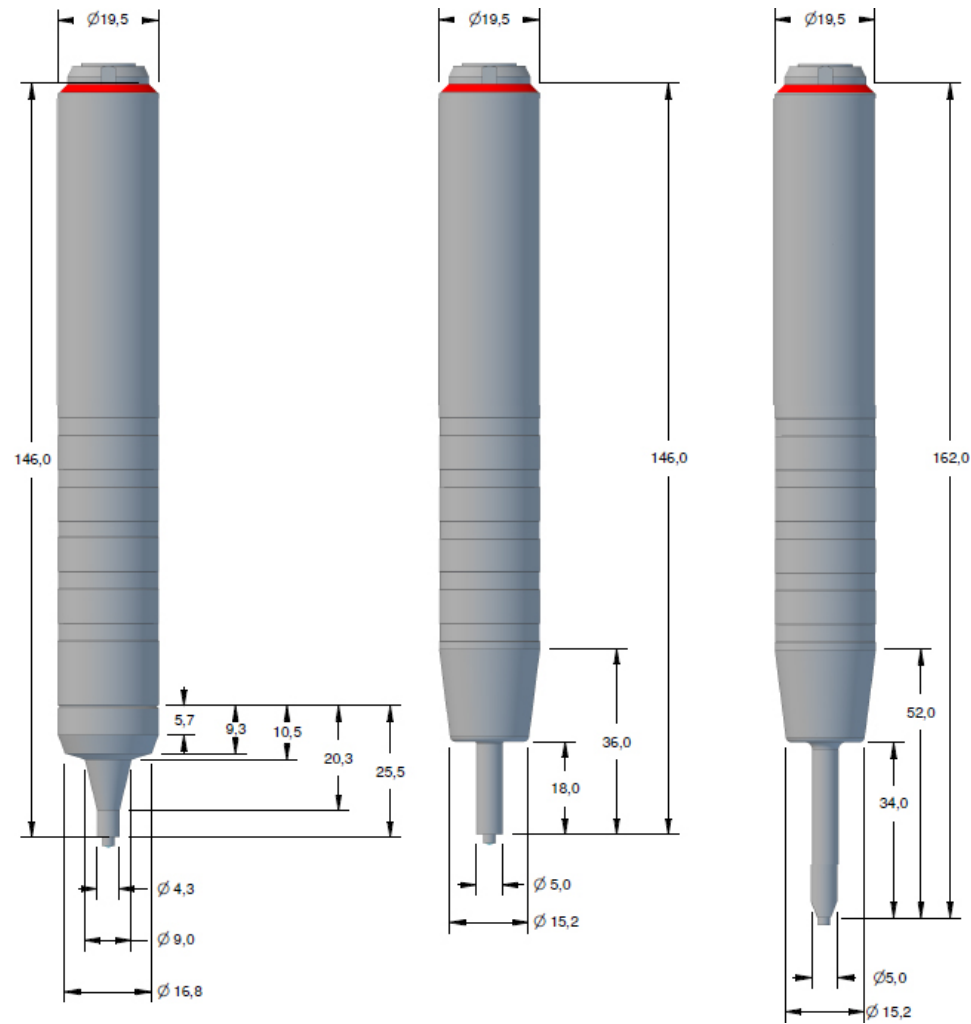
- ◆ Probe support
- ◆ High precision stand
- ◆ Remote-Software
- ◆ UCI-Hardness test blocks
- ◆ Carry bag
- ◆ Probe handle



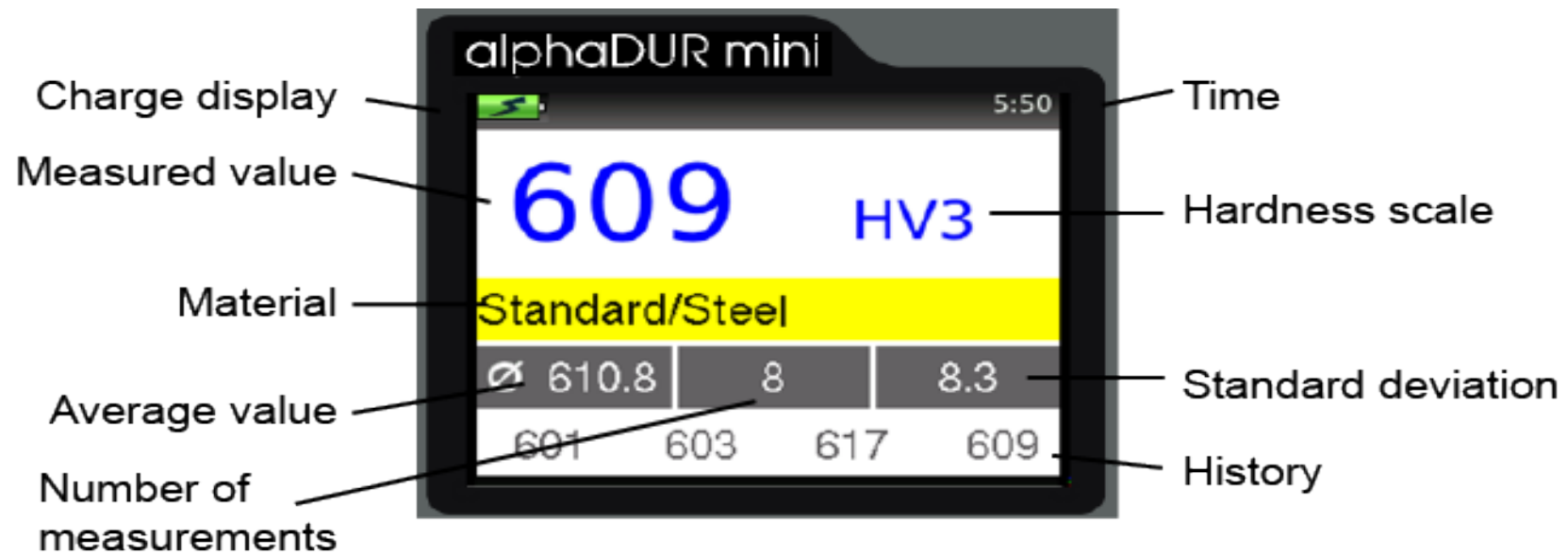
Available test loads



UCI-Probes



Display / Measuring window



Key functions



Switching on/off the device.



Changes the hardness scale.



Changes the material.



Delete last measurement point



Display statistics



Into the main menu



Cursor keys

With these keys, menu items are selected and the required values in input fields are set.



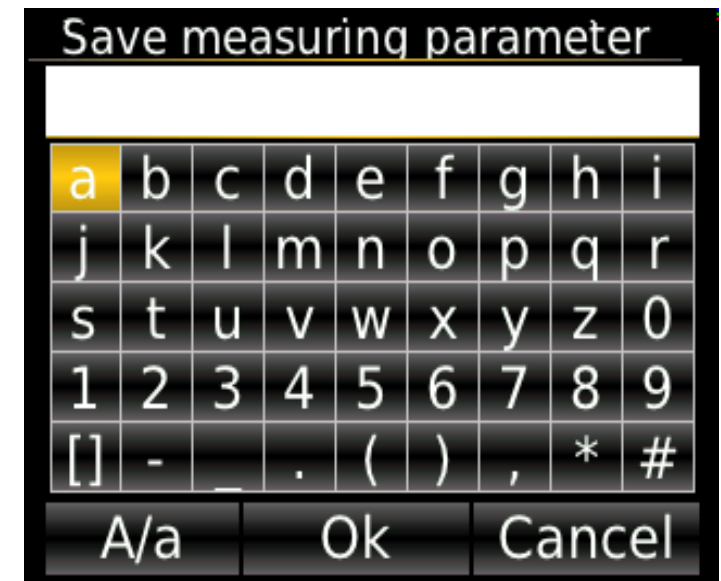
With this key, the current function is exited. The higher-level menu item is accessed.



The processing is completed with this key in a field, or a menu item is selected.

Text entry

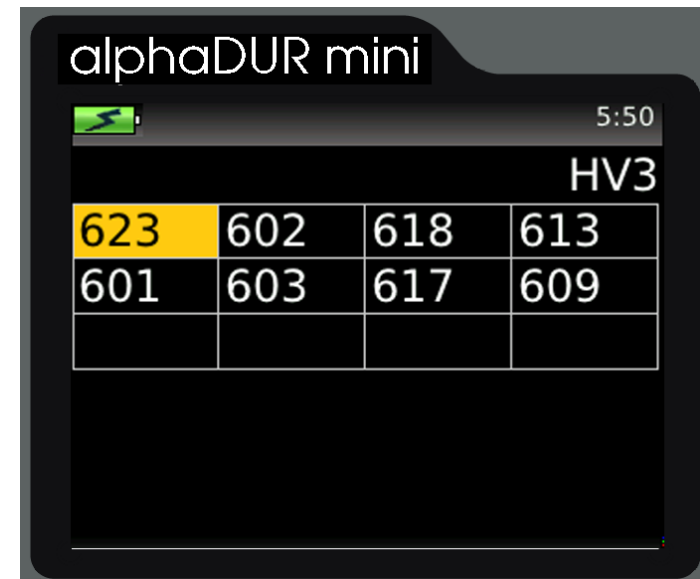
- ◆ Choose letters with the cursor keys; acceptance with Enter
- ◆ A/a : Switch Caps / lower case
- ◆ Ok : Finish text entry
- ◆ Cancel : Cancel the text entry
- ◆ Key DEL : Delete last letter



Statistic



1x Key function STAT



2x Key function STAT

- ◆ Obviously incorrect values can be deleted separately

Measuring Parameters

- ◆ For periodic measuring tasks the following parameters can be saved:
 - Material
 - Hardness scale
 - Upper and lower limit for the rating 'GOOD'
 - Test report printout setting (On or Off)
 - The number of values which should be used for the statistical evaluation

Hardness Conversion according to DIN 50150

- ◆ HRC: 240 HV / 20,3 HRC to 940 HV / 68,0 HRC
- ◆ HRB: 85 HV / 41,0 HRB to 250 HV / 99,5 HRB
- ◆ Brinell: 80 HV / 76,0 HB to 650 HV / 618 HB
- ◆ Tensile strength: 80 HV / 255 MPa to 650 HV / 2180 Mpa

Material Calibration

- ◆ For every tested material a separate material calibration is necessary
- ◆ Steel is calibrated over the complete hardness range ex factory (can not be deleted)
- ◆ Own material calibrations are only valid for the relativ hardness range
- ◆ Requirements to the reference sample:
 - Sufficient size and mass
 - Sufficient wall thickness
 - Good surface conditions

Memory Functions

- ◆ 100,000 values can be stored incl. The following parameters:
 - Probe type
 - Test load
 - Material
 - Hardness scale (HV, HB, HRC, HRB, Tensile strength)
 - Upper and lower limit of the rating 'GOOD'

Data Output

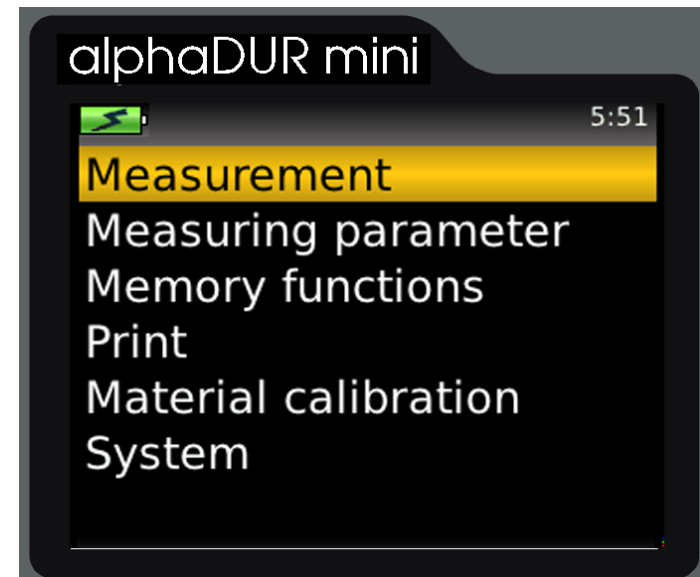
- ◆ Mobile Printer
- ◆ Remote-Software
- ◆ USB Flash Device



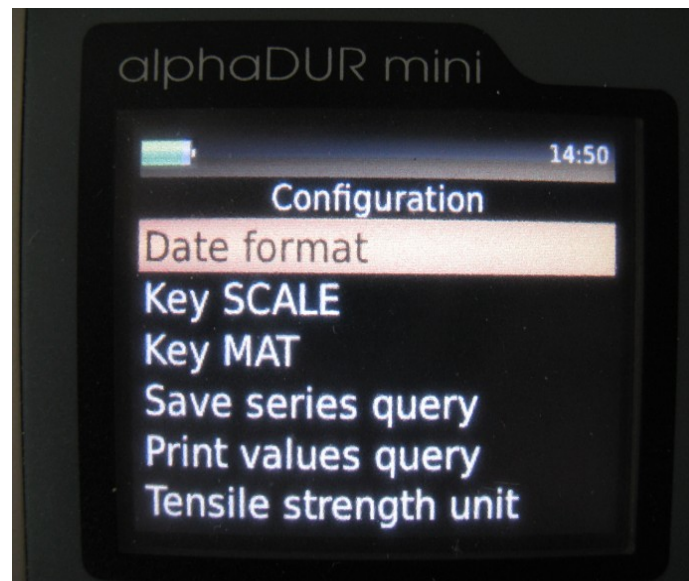
System Settings (Menu → System)

◆ Available languages:

- German
- English
- Polish
- French
- Russian
- Turkish



Configuration (Menu → System → Configuration)



Systeminformation (Menu → System → Info)

- ◆ Version of the Firmware
- ◆ Version of the Hardware
- ◆ Serialnumber of the probe
- ◆ Measuring counter of the probe



Partical Part

- ◆ Measurements on hardness test blocks
- ◆ Measurements with probe support
- ◆ Measurements with high precision stand
- ◆ Material calibration
- ◆ Measurements on thin-walled specimen
- ◆ Measurements with different test loads



Hermann-Schlichting-Str. 14

38110 Braunschweig

+49 5307 95102 -0

info@baq.de

www.BAQ.de