The Instrument-Concept:

- Comprehensive intuitive operation scheme with color touch screen and large graphic display.
- All important information at a glance
- Virtually unlimited storage space for settings, results, statistics (4GByte through 32GByte)
- New: Conversions from Hardness to Hardness and Hardness to Tensile Strength can be done for all materials listed in EN ISO 18265:2014 und ASTM E140-12b (2013) and DIN50150 (2000, Table 1, Steel).
- Very extensive set-up and documentation capabilities in clear text
- Automatic importing of set-up parameters from stored measurement series
- Data transfer to PC (USB, Bluetooth, WLAN)

The Probe Technology:

- Wide test force range: 1N – 100N for motor- and handheld probes, long rod with 10N, 50N
- Best repeatability of measurement, longtime stable
- Almost steady low scattering of results across the whole range even at high hardness
- Free adjustable to nearly all technical materials. Concept of CAL-Number for automatic compensation of Young's modulus
- Digital signal evaluation and transfer of measured value to the indicating device via USB-Interface
- Direct adaptation of probes to full test systems with SPS connection (SonoDur-R, „Rack“)
- Service friendly, modular construction

UCI-Method (Ultrasonic Contact Impedance):

The indentation produced by the Vickers diamond is displayed instantaneously. The loading is done via motor or by hand against a spring. Hardness is calculated when the defined test load is reached. This corresponds to the indentation surface after unloading, despite the test was under load. UCI-Hardness testing is standardized according to ASTM A 1038, DIN 50159-1/-2 and described in VDI/VDE guidelines 2616 Part 1 and MC1 (DGzfP).
**SonoDur 6.1**

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**NewSonic**

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**SonoDur2** – small-sized, handy at full control

**Probe identification and test condition**
with calibration, material-conversion table, dwell time, name of user, upper and lower tolerance gates

**Test results**
with actual measurement value (green = o.k., red = out of tolerance), average and number of tests done

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**Probe Symbol:**
Indication of probe position and penetration time after reaching the test force with count down. Manual initiation of measurement cycle by touching the probe symbol

**Instrument control:**
Menu = device menu
Exit = Change over to “measurement” or “end of test” resp.
Info = Indication of settings and results

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Easy menu structure, actual conversions into other hardness scales according to norm and depending on probe used

**INFO-Key:** All settings and results at a glance where individual false measurements can be corrected at any time

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**SonoDur2** – optimal protected: IP54 and MIL 810G (vibration-jiggle test).
100% availability due to change battery

Made for the daily use – even with handy gloves: Touch-Screen with protecting foil, optional mounting holes and anti-slip rubber pads for slanted surfaces

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**Scope of supply:** SonoDur2, probe, case, certificates, USB-charging cable, power unit.

**Accessories (optional):**
Hardness reference blocks, probe adaptors, precision test stand, evaluation software, spare accumulator, external charger

**Services:**
- Training, customer care on site
- Repair work for certain producers (UCI)
- Plant hire

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Figure shows additional equipment