

SONODUR R

The world's only UCI hardness tester suitable for fully automated production lines with the possibility of 100% process monitoring in mass or series production



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With its 19" housing dimensions, the SONODUR R is ideally suited to be used in fully automated production lines and as a tabletop device. The familiar android-based software of the SONODUR 3 is optimally adapted to the clear 7" LED touch screen of the SONODUR R.

Thanks to USB and a fully isolated, digital I/O interface, the device is currently the only fully automatable UCI hardness measuring system in the world. Setpoints can be used to directly control actuators such as good/bad sorting switches.

The SONODUR R combines all the advantages of the SONODUR 3 mobile hardness tester with the requirements of a device for integration into a fully automated process line. All UCI SONODUR handheld and motor probes can be used without restrictions due to high-resolution, digital signal processing technology.

The instrument works with wired probes of the SONO H/M/S series. These are available in different versions and test forces. Hand-held probes are available with standard test loads of 10 N, 30 N, 49 N and 98 N. Motor probes are available in 1 N, 3 N and 8.6 N versions.

The main areas of application are the measurement of series parts after heat treatment and/or surface processing as well as coating hardness measurement on gravure cylinders.

YOUR ADVANTAGES AT A GLANCE

Safety and cost savings: fully automatable UCI hardness testing for 100% process monitoring

Operator-independent measurements: Reproducible measurement for the highest quality requirements

Maximum flexibility for a wide range of applications: Ideally suited for use in fully automated production lines, but also for use as a benchtop device

Android-based software design: Easy and intuitive handling of the software

Large number of commercially available interfaces: Max. Flexibility for connection to third-party systems

The largest range of UCI test probes on the market: Maximum flexibility

Test method UCI method: Our expertise for your safety - Complies with DIN 50159-1,2-2021, ASTM A1038-2019

NORMS

DIN 50159: Specifies a hardness testing method for metallic materials using the UCI (Ultrasonic Contact Impedance) technique.

ASTM A1038: Defines the UCI hardness testing method, in which material hardness is determined by measuring the frequency shift of a vibrating probe with a Vickers indenter.

TECHNICAL INFORMATION

OPERATING SYSTEM:	Android 7
INTERFACES:	— On / Off — Digital I/O, Digitale Input/Out signals, galvanically isolated — USB (device) for software updates — COM1- serial interface RS232 data output and remote control galvanically isolated — Probe cable, connection socket for probe cable coded and locked (push-pull)
POWER SUPPLY:	24 V DC in / 1A min.
DIMENSIONS - DEVICE:	approx. 133 × 236 × 314 mm (H × W × D) (360 mm with handle, suitable for 19" housing dimensions)
WEIGHT - DEVICE:	approx. 3400 g
SCREEN:	7" PCT touch screen, TFT display with LED lightning

ACCESSORIES



HARDNESS REFERENCE BLOCKS
Hardness reference blocks for UCI-
and Leeb measuring technology



SONO H
Handheld UCI Measuring Probes for
Flexible Hardness Testing



SONO M
Motorized UCI Measuring Probes for
Maximum Repeatability



SONO S
Guided UCI Measuring Probes for
Reliable Everyday Hardness Testing

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