

KT-C

Purpose

Small sized device with set of exchangeable transducers designated for hardness measurement and tensile strength σ of wide range of materials.

According to operating principle the device carries out the following measurements methods:

- Leeb method in accordance with ISO 16859, ASTM E140, ISO 18265;
- UCI (ultrasonic contact impedance) method in accordance with DIN 50159, ASTM A1038, ASTM E140, ISO 18265;
- static method of hardness measurement in accordance with DIN 50158, ASTM B724, ASTM E140, ISO 18265;



Features

- the device comprises 3 measurement methods, universal instrument for hardness determination of metals;
- wide range of measuring transducers and accessories to inspect products of various shapes and dimensions;
- colour 2.4" display with built-in Li-Ion rechargeable battery;
- shock-proof ergonomic body with rubberized corners;
- position of transducer in relation to the horizon does not influence measurement results;
- use in both laboratory and manufacturing conditions;
- quick view of statistics in measuring process with averaging and by groups stored in device memory;
- possibility to set value limits;
- measurement results can be stored in device memory for further transfer into PC using USB 2.0 channel for storage, statistical processing and documentation with use of supplied software.

Basic technical characteristics

Hardness scales	HRC, HB, HV, HRA, HRB, HSD, σ , HL
for Brinell, HB	10
for Vickers, HV	12
for Shore, HSD	2
for Rockwell, HRC	1.5
for Leeb, %	$\pm 3,0\%$ (100...500 HLD, 100...700 HLDL, 100... 600 HLC, 100...450 HLG) $\pm 3,0\%$ (500...700 HLD, 700...850 HLDL, 600...750 HLC, 450...600 HLG) $\pm 2,0\%$ (>700 HLD, >850 HLDL, >750 HLC, >600 HLG)
Tensile strength (σ), %, max	5

Number of measurements for average value calculation	up to 99
Number of memory locations of the measurement results	up to 1000 (can be stored into 99 groups)
Power supply	built-in Li-Ion rechargeable battery 3.7-4.2 V, 1500-1700 mAh
Operating time, h	12
Working temperature range	-30...+40 °C
Dimensions, mm	125 x 55 x 20
Weight, g	120

* These characteristics of measurement error are ensured on hardness test blocks with averaging from at least 10 measurements.

Delivery set

Measuring unit with transducers (quantity and modification depends on customer's selection), charging unit, mini-USB — USB type A cable for connection with computer, operating manual, CD with software for transfer and collection of measuring results, shock-proof case.

Guarantee period

- measuring unit — 3 years;
- transducers — 2 years.