NOVOTEST
QUALITY TESTING DEVICES

Strength Meter NOVOTEST IPSM-U+T+D

The device allows controlling the strength and homogeneity of concrete, brick and other materials under the composition and surface sounding in products and designs for construction projects, inspection of buildings and structures.

It has the function of determining the depth of cracks by the surface sounding.

Measuring the strength and uniformity of construction materials by ultrasonic method NOVOTEST IPSM-U+T+D is designed for:

- ✓ Detection of voids, cracks and defects encountered in the production and operation of structures (for inspection of facilities)
- ✓ Control and uniformity of concrete strength, brick, construction and composite materials, structures, bridges and waterworks
- ✓ Determine the density and elastic modulus fiber glass and so on
- ✓ Definitions of sound index of construction ceramics and abrasives
- ✓ Visualize the presence of a signal (A-scan)
- ✓ Assess the degree of maturity of the concrete in a monolithic concreting
- ✓ Allows to test concrete (and other) constructions for internal defects, discontinuities and measure the depth of their locations

The advantages of Strength Meter NOVOTEST IPSM-U+T+D:

- ✓ Calculating the strength, density and elastic modulus of the pre-installed calibration graph
- ✓ The calculation of the sound of the index of abrasive products
- ✓ Storage of the results
- ✓ Communication with PC
- ✓ Further processing of the results using a specialized computer program
- ✓ Lack of critical results to the pressing force transducers
- ✓ Ability to work on large sounding bases with transducers for through-sounding
- ✓ Improved ratio of “signal-to-noise”
- ✓ Universal converters for emission and reception of high-impact
- ✓ The increased excitation voltage probe pulses

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The increased power of the excitation probe pulses, high-quality amplification path can significantly increase the base of sounding and work on materials with high damping.

The surface sounding probe has a base of 120 mm, suitable for sounding concrete cubes samples.

Specifications of Strength Meter NOVOTEST IPSM-U+T+D

The range of measurements of the propagation of ultrasonic vibrations, μs	10 ... 9999
The measurement resolution of the propagation time of ultrasonic vibration, μs	0.1
The operating frequency of the ultrasonic oscillations, kHz	50-100
The base surface sounding measurements in mm	120
The output voltage, V	up to 600
Overall dimensions of electronic unit, mm	122x65x23
Operating temperature, °C	-20...+40 °C
Power supply	2 AA batteries
Time of continuous work hours, not less	10

Modifications of Ultrasonic Tester of building materials strength:

- ✓ IMSP-U - the simpliest modification to measure the strength of materials
- ✓ IMSP-U+T - additionally allows control of homogeneity, measure the depth of cracks
- ✓ IMSP-U+T+D - the most versatile modification, in which all the functions of previous modifications are implemented, and also flaw detection mode (A-scan) available

Standard set of Strength Meter NOVOTEST IPSM-U+T+D

- ✓ Electronic unit
- ✓ Surface sounding probe with cables
- ✓ Standard sample
- ✓ 2pc AA batteries
- ✓ Charger
- ✓ Operating manual
- ✓ Packing container

Available options for ordering of Strength Meter NOVOTEST IPSM-U+T+D

- ✓ Surface sounding probe
- ✓ Transducers (probes)
- ✓ Standard sample
- ✓ Batteries

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Concrete Cover Meter NOVOTEST Rebar Detector

Concrete Cover Meter NOVOTEST Rebar Detector is intended for operational monitoring of reinforced concrete products and structures for process control in the factories and building sites, surveys buildings and structures. The device measures the protective layer of concrete by magnetic method.

Measuring the thickness of Concrete Cover Meter NOVOTEST Rebar Detector allows for:

- ✓ Operational control of the quality of reinforced concrete products and structures magnetic method for process control in factories and construction sites, the examination of structures, buildings and structures
- ✓ Determination of surface areas of structures, free from the overlying valve to measure the strength of the methods: ultrasound, shock pulse, separation from the edge chipping and cleavage
- ✓ Measure the diameter and depth of reinforcement

The advantages of Concrete Cover Meter NOVOTEST Rebar Detector

- ✓ High precision measurements of concrete cover
- ✓ Search rebar by means of a linear indicator, digital readout, and tone
- ✓ The presence of a deep search mode
- ✓ Ability to compensate for the influence of parallel rods
- ✓ Graphic display with backlight
- ✓ The sensor design with convenient strap
- ✓ Small size and weight
- ✓ Determination of the projections on the surface of the concrete reinforcement, the measurement of the protective layer, the diameter estimate
- ✓ Automated calibration of the instrument before performing the measurements
- ✓ An automated setup for steel
- ✓ Displays information on a graphical display with backlight

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The main functions of Concrete Cover Meter NOVOTEST Rebar Detector

- ✓ Measuring the thickness of the protective layer of concrete with a certain diameter
- ✓ Determination of the diameter of fittings for a known protective layer
- ✓ Measurements of the unknown parameters of reinforcement
- ✓ Scan mode
- ✓ Deep search for reinforcement

Specifications of Concrete Cover Meter NOVOTEST Rebar Detector

Range of measuring the thickness of the protective layer, mm	2 ... 170
Controlled diameters, mm	3-50
Limiting the thickness of the protective layer, mm	150
Measurement accuracy, mm	(0,03 h + 0.5)
Overall dimensions, mm	120x60x25
Operating temperature, °C	-5 ... +50 °C
Power	2 pcs AA batteries
Time of continuous work hours, not less	10
Weight of electronic unit with batteries, no more, kg	0.2

Standard set of Concrete Cover Meter NOVOTEST Rebar Detector

- ✓ Electronic unit
- ✓ Sensor
- ✓ Control sample - a standard pad
- ✓ 2 pcs AA batteries
- ✓ Charger
- ✓ Operating manual
- ✓ Packing container

Available options for ordering of Concrete Cover Meter NOVOTEST Rebar Detector

- ✓ Control sample (standard pad)
- ✓ Sensor
- ✓ Batteries
- ✓ Charger

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