



## Strength Meter NOVOTEST IPSM-U+T+D



### Description of Strength Meter NOVOTEST IPSM-U+T+D

Device allows controlling the strength and homogeneity of the concrete, brick and other materials under the composition and surface sounding in products and designs for construction projects, inspection of buildings and structures. 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 process control and inspection of facilities)
- Control and uniformity of concrete strength, brick, construction and composite materials, structures, bridges and waterworks
- **Measure the depth of cracks in the tested materials**
- Determine the density and elastic modulus fiberglass and so on
- Definitions of sound index of construction ceramics and abrasives
- Estimates of the porosity, fracturing and anisotropy of the material
- Assess the degree of maturity of the concrete in a monolithic concreting
- **Visualize the presence of a signal (A-scan)**
- **Allows to test concrete (and other) constructions for internal defects, discontinuities**

### Improved the accuracy of measurement of time intervals by allowing manual selection of the moment trip meter

### 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
- Memory 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 databases 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



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 sensor surface sounding 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, $\mu\text{s}$	10 ... 9999
The measurement resolution of the propagation time of ultrasonic vibration, $\mu\text{s}$	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 el. unit, mm	122x65x23
Operating temperature, $^{\circ}\text{C}$	-20...+40 $^{\circ}\text{C}$
Power	2 AA batteries
Time of continuous work hours, not less	10

### Modifications of Ultrasonic Tester of building materials strength:

- **IMSP-U** - the most simple 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 implemented all the functions of previous modifications, and also available *flaw detection mode* (A-scan)

### Available options for ordering

- Surface sounding probe
- Transducers (probes) for through sounding
- Standard sample
- Batteries
- Charger

### 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

