

# Strength Meter NOVOTEST IPSM (Pulse Velocity Tester)



## ◀ Description of Strength Meter NOVOTEST IPSM ▶

The 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. 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 IPISM 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 (Guidelines MDS 62-2.01), 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);
- ❑ possibility of control of concrete (and other) constructions for internal defects, discontinuities;
- ❑ improve the accuracy of measurement of time intervals by allowing manual selection of the moment trip meter.





## ◀ Advantages of Strength Meter NOVOTEST IPSM ▶

- Calculating the strength, density and elastic modulus of the pre-installed calibration graph;
- Memory of the results;
- Communication with the PC;
- Further processing of the results using a specialized computer program;
- Ability to work on large databases with transducers for sounding;
- Universal transducers for transmitting and receiving ultrasonic scanning;
- The increased excitation voltage probe pulses.



### ◀ Specifications of Strength Meter NOVOTEST IPSM ▶

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	to 600
Storage of measurement results	128 (1000 cells)
Overall dimensions of el. unit, mm	122x65x23
Operating temperature, ° C	-20...+40 C°
Power	2 AA batteries
Time of continuous work, hours, not less	10
Standard	ASTM C597-16

### ◀ Available options of Strength Meter NOVOTEST IPSM ▶

- Ultrasonic transducers for through-sounding testing
- Ultrasonic probe for surface-sounding testing
- Calibration sample
- Plastic case or bag

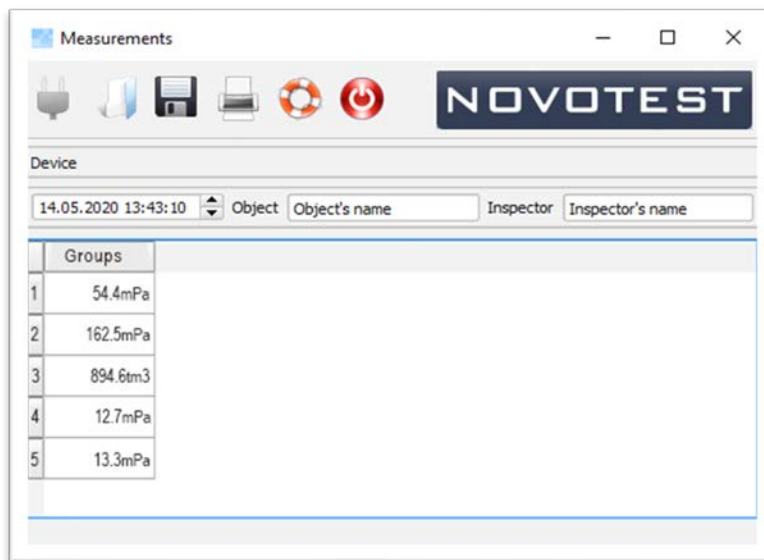


### ◀Standard set of Strength Meter NOVOTEST IPSM▶

- ❑ Electronic unit Strength Meter NOVOTEST IPISM
- ❑ Rubber bumper protected case
- ❑ Ultrasonic probe for surface-sounding testing (or Ultrasonic transducers for through-sounding testing)
- ❑ USB cable for PC
- ❑ Calibration sample
- ❑ 2 batteries with charger
- ❑ Operating manual
- ❑ Plastic case or bag



### ◀Other pictures of Strength Meter NOVOTEST IPISM▶



The screenshot shows a software window titled "Measurements" with a toolbar containing icons for power, save, print, and other functions. Below the toolbar, there is a "Device" section with a date and time field (14.05.2020 13:43:10) and input fields for "Object", "Object's name", "Inspector", and "Inspector's name". A table below displays measurement results in five groups.

Groups	
1	54.4mPa
2	162.5mPa
3	894.6tm3
4	12.7mPa
5	13.3mPa

