

STRENGTH METER IPSM



VARIOUS
PROBES TYPES

CRACK
DEPTH MEASUREMENT

ANY
MATERIALS CALIBRATION

NON-DESTRUCTIVE
STRENGTH TESTING OF MATERIALS

IPSM is an Ultrasonic Pulse Velocity (UPV) tester is used for strength measurements and to find defects in concrete products, bricks, and other solid materials. It analyzes the propagation of ultrasonic waves in the material to evaluate parameters such as strength, density, elastic modulus, and sound index.

These parameters have a correlation with the velocity of ultrasound propagation in the material.

SPECIFICATIONS

| | | |
|--|---|--|
| Measurement range of US pulse propagation time | 10 – 9999 µs | |
| Measurement accuracy / resolution of US pulse propagation time | 0.5 µs / 0.1 µs | |
| Measurement methods | Determine the strength Determine the density Determine the modulus of elasticity Determine the sound index | Estimate the crack depth (English method) Estimate the crack depth (Russian method) Performing inspection of the test object |
| Probes frequency | 50 – 100 kHz | |
| Output voltage | Up to 600 V | |
| Data storage | Device - 128 measurements | |
| Data transfer | PC: - Online – NOVOTEST.INFO | |
| Languages | English or Ukrainian/Russian *additional languages available by request. | |
| Body type / Dust and moisture protection level | Plastic, with shockproof silicone case / Standard for shop and field operation | |
| Power supply / Charging | 2 pcs AA batteries / AA charger | |
| Batteries life | 10 h | |
| Operating environment | Temperature: -20°C ~ 50°C, Humidity: <95% R.H. at 35°C | |
| Dimensions and weight of electronic unit (with batteries) | 122x76x37 mm / 0.25 kg | |

CONCRETE REBOUND HAMMER (SCLEROMETER) MSh

Concrete rebound hammer (sclerometer) is used to test the strength of concrete and other construction materials. The method is based on hitting the concrete surface with the hammer with predetermined (standardized) impact energy and measuring of the height of the hammer rebounding. The strength of concrete is determined with the calibration charts supplied with the instrument.



SPECIFICATIONS

| Names / model | NOVOTEST MSh-225 | NOVOTEST MSh-75 | NOVOTEST MSh-20 |
|---|--|-----------------|-----------------|
| Measurement range of strength | 10 – 60 MPa | 10 – 60 MPa | 1 – 25 MPa |
| Impact energy | 2207 J | 735 J | 196 J |
| Minimum thickness of testing object | 70 mm and more | 50 – 100 mm | 30 mm and more |
| Measurement accuracy | 10% | | |
| Hardness value of impact plunger working surface, no less | 60 HRC | | |
| Operating environment | Temperature: -20°C ~ 50°C, Humidity: <95% R.H. at 35°C | | |
| Dimensions and weight | 20x34x10 mm / 1.1 kg | | |

CONCRETE COVER METER REBAR DETECTOR



SCAN MODE
WITH SOUND ALARM

PROTECTIVE
LAYER MEASUREMENT

DETERMINATION
OF REINFORCEMENT POSITION

ASSESSMENT
OF REINFORCEMENT DIAMETER



Concrete Cover Meter NOVOTEST Rebar Detector is used to measure the thickness of the concrete cover, determine the location and estimate the diameter of rebar in reinforced concrete products in the conditions of enterprises, construction sites, buildings and structures in use.

SPECIFICATIONS

| | |
|---|---|
| Range of measuring the thickness of the protective layer | 5 – 170 mm |
| Controlled diameters | 6 – 50 mm |
| Thickness measurement accuracy of the protective layer | (0.03 h + 0.5) mm |
| Measurement accuracy of the rebar diameter | Not regulated, depends on the testing object |
| Measuring units | mm, inch (optional) |
| Languages | English or Ukrainian/Russian *additional languages available by request. |
| Body type / Dust and moisture protection level | Plastic, with shockproof silicone case Standard for shop and field operation IP54 |
| Power supply / Charging | 2 pcs AA batteries / AA charger |
| Batteries life | 8 h |
| Operating environment | Temperature: -20°C ~ 50°C, Humidity: <95% R.H. at 35°C |
| Dimensions and weight of electronic unit (with batteries) | 122x76x37 mm / 0.25 kg |