Ultrasonic Pulse Velocity Tester (UPV)

CANTROL®
Construction Materials Testing Equipment

Ultrasonic Pulse Velocity Tester is used to measure the velocity of propagation of ultrasonic pulses through concrete. A pulse of longitudinal vibrations is produced by an electro-acoustical transducer held in contact with one surface of the concrete under test. After traversing a known path length in the concrete, the pulse of vibrations is converted into an electrical signal by a second transducer and electronic timing circuits enable the transit time of the pulse to be measured.

Hand held light instrument, battery operated, microprocessor incorporated, supplied complete with two 55 kHz transducers (transmitter and receiver), calibration rod, battery USB to micro-USB cable, 120 ml of coupling agent, instruction manual and heavy duty plastic carrying case. The meter can also be used with low and high frequency transducers.

Standard:
ASTM C1202, C1760

Model:

Description of Concrete Ultrasonic Pulse Velocity Tester (UPV):

Transit time measurement from 0.1 to 2000 microseconds with 0.1 microseconds resolution.

Microprocessor incorporated

Large size digital display 128x64 pixel

Pulse rate 1, 3, 5 per second, selectable.

Transmitter output 500 V

Frequency range 24 to 150 kHz

Receiver input impedance 1 MOhm

Internal battery charger, 2800MAh

14 working hours using I Hz pulse rate

Connectable to oscilloscope

Digital calibration

Dimension: 425x320x120mm

Total Weight: 2.4 Kg

Model: 5110181, complete set, UPV unit, 2 pcs of 55kHz probes with cables, calibration acrylic rod and paste gel, battery USB to micro-USB cable and heavy duty plastic case.

Model: 5111083, 55kHz probes with cables

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