



Ultrasonic Pulse Velocity Tester



CONCRETE

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PRODUCT MODEL

TMC-3850 Pundit Lab+ Ultrasonic Pulse Velocity Tester (Proceq)

TMC-3855 S-Wave Transducers, 250 kHz, for TMC-3850 (Proceq)

STANDARDS

EN 12504-4 | ASTM C 597-02 | BS 1881 Part 203 | ISO1920-7:2004 | IS13311 | CECS21

INFORMATION

Manufacturer : Proceq

Product Name : Ultrasonic Pulse Velocity Tester

Code of Product : TMC-3850

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DESCRIPTION

Pundit Ultrasonic Pulse Velocity Tester is measurement of pulse velocity can be used for the determination of the uniformity of concrete, the presence of cracks or voids, changes in properties with time and in the determination of dynamic physical properties. EN 12504:4 gives guidance on testing fresh concrete, hardened concrete and concrete in structures. It specifies a method for the determination of the velocity of propagation of pulses of ultrasonic longitudinal waves in concrete.

TMC-3850 is an ultrasonic pulse velocity test instrument which is used to examine the quality of concrete. It features online data acquisition, waveform analysis and full remote control of all transmission parameters. Along with the traditional transit time and pulse velocity measurement, TMC-3850 offers path length measurement, perpendicular crack depth measurement and surface velocity measurement. Optimized pulse shaping gives greater transmission range at lower voltage levels. This, coupled with automated combination of the transmitter voltage and the receiver gain, ensures an optimum received signal level, guaranteeing accurate and stable measurements. An integrated waveform display allows manual triggering of the received waveform. Pundit Lab+ offers other features such as the possibility to estimate compressive strength by Sonreb Method in combination with a rebound hammer value.

Features of PUNDIT LAB+

- Integrated wave form display
- Remote control; A USB connection and the Pundit Link application allow full remote control of all features of the ultrasonic test equipment
- Full remote control of the instrument with a third party software
- Direct data logging on the PC
- Runs on battery supply, mains supply via AC adaptor and can also be powered from a PC via the USB connection.
- Supports a wide range of transducers from 24 kHz up to 500 kHz, making it suitable not only for concrete and rock, but also for other materials such as graphite, ceramics, woods, etc.
- Exponential transducers for rough surfaces and shear wave transducers for estimation of dynamic modulus of elasticity complete the portfolio.
- Integrated amplifier gain stage
- Real time stamp
- Direct estimation of compressive strength
- Combined ultrasonic pulse velocity / rebound value estimate of compressive strength (SONREB)
- Data review list on the instrument

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Features of PUNDIT PL SERIES

- Single side determination of slab thickness
- Detection and localization of voids, pipes, delaminations and honeycombing
- Advanced echo tracking technology helps identifying the main echo
- Control buttons and optical feedback directly on the probe increase measurement efficiency
- Automatic estimation of the Pulse Velocity
- Easy B-Scan measuring through center marker and rulers directly on the probe
- Dry-contact transducer: no couplant required, suited for measuring on rough surfaces
- Lightweight and ergonomical handling
- Expandable with Pulse Velocity transducers

TECHNICAL SPECIFICATIONS

Range	0.1 – 9999 μ s
Resolution	0.1 μ s
Display	79 x 21 mm passive matrix OLED
Memory	Non-volatile, > 500 measured values
Power Supply	4x AA batteries (> 20 hours continuous use)
Operating Temperature	-10° to 60°C (0° to 140°F)
Humidity	< 95% RH, non condensing
Dimensions	175x55x220 mm (packed)
Weight (approx)	1.5 kg (packed)



TESTMAK
MATERIAL TEST EQUIPMENTS

Telephone : +90 312 395 36 42
Fax : +90 312 395 36 01

Website : www.testmak.com
E-Mail : info@testmak.com

Koca Sinan Industrial Sites 1183 Street No:
40 06370 OSTIM / ANKARA / TURKEY