



Pundit Ultrasonic Pulse Echo Tester 200PE & Ultrasonic Pulse Velocity Tester 200

Pundit is an industry standard brand and widely recognized as the first commercial field device to measure Ultrasonic Pulse Velocity. The Pundit PL-200 and PL-200PE are the first Proceq products to be developed using a new generation and design-protected Touchscreen unit.

Features:

- Specially designed housing to be used on-site in harsh environments
- Screen with highest resolution and sharpest image available in the market allowing best possible analysis of the measured waveforms
- 8 GB Flash memory with storage up to 100,000 A-Scans
- Dual core processor supporting diverse communication and peripheral interfaces
- Modular concept: Expandable with all Proceq Pulse Velocity and Pulse Echo transducers
- Future proof investment: upcoming Pundit ultrasonic products will be directly compatible



Ultra Sonic Pulse Velocity Tester 200



Ultrasonic Pulse Echo Tester 200PE



Pundit Ultrasonic Pulse Velocity Tester 200

Best in class Ultrasonic testing instrument providing various features for on-site testing:

- Line scans and area scans for concrete uniformity assessment
- Zoom and scroll for precise A-Scan inspection
- On board storage and review of waveforms
- Settings directly accessible on measuring screen
- Dual cursor for manual A-Scan evaluation
- Separate cursor to measure signal amplitude
- Improved surface velocity measurement
- Automatic and manual triggering and user adjustable trigger threshold
- A-Scan update rate up to 40 Hz



Additional Measurement Modes

E-Modulus

Determines the dynamic E-Modulus of a material by measuring P- and S-wave pulse velocities.

- Direct calculation of the E-Modulus on the instrument
- Measure P- and S-wave velocities on the same screen
- Poisson's Ratio also calculated on PL-link software

Data Logging

Automatic tests can be set up in sequences for long term measuring applications.

- Countdown timer indicates time to next measurement
- Pulse velocity development shown graphically on screen

Area Scan

2D-visualization for uniformity testing on structural elements.

- User definable color classification based on pulse velocity of transmission time
- User definable grid pattern for small to large scale measurements
- All measurements can be edited

Pundit Ultrasonic PULse Echo Tester 200PE

The Pulse Echo's technology widely extends the application range of the Pundit Touchscreen Unit and offers a variety of special features.

- Single side determinate of slab thickness
- Detection and localization of voids, pipes, cracks and honeycombing
- Advanced echo tracking technology helps identifying the main echo
- Control buttons and optical feedback directly on the probes 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 ergonomically handling
- Expandable with Pulse Velocity transducers

Scan Modes

A-Scan

- A-Scan allows direct analysis of the raw signal
- Digital filters for better echo visibility and noise suppression
- Automatic readout of slab thickness

B-Scan

- A cross-sectional view perpendicular to the scanning surface is provided. Facilities the search for pipes, cracks, voids, etc.
- State-of-the-art image processing for improved image quality
- Cursor placement provides a direct readout of the slab thickness and the location of hidden objects



Additional Measurement Mode

Area Scan

2D-visualization for uniformity testing of slab thickness on structural elements.

- User definable color classification based on thickness measurements
- Grid pattern fully adjustable for tunnel lining thickness variations