

Pundit Ultrasonic

Pundit 200

Concrete properties analysis using ultrasound pulse velocity

Diverse

In addition to the standard pulse velocity measurement, various measurement modes including surface velocity measurement, Line Scan, Area Scan, Data Logging, compressive strength correlations, SONREB and E-modulus measurement.

Automation

The area scan grid can be freely defined by the user and the colour coded results can display either pulse velocity or depth variations on the structure to quickly identify areas of concern.

Versatility

Provides the unique capability to use the same display device for both classical pulse velocity testing and pulse echo testing.



Processing Unit / Sensor

Bandwidth	20 to 500 kHz
Technology	Ultrasonic pulse velocity
Measuring Resolution	0.1 us
Pulse Voltage	±100 to ±450 V (UPV)
Receiver Gain	1 to 10’000x (0 to 80 dB)
Nominal Transducer Frequency	24 – 500 kHz
Pulse Shape	Square Wave
Pulse Delay	–
Number of Channels	1
PC Software	PL-Link for analysis and export data to third party applications
Display	7” color rugged touchscreen unit (800 x 480 pixels) with a dual-core processor
Memory	>Internal 8 GB flash memory
Connections	USB host/device and Ethernet
Measurement Modes	Pulse velocity Surface velocity Data logging E-modulus Compressive strength correlation Crack depth Line Scan Area Scan
Measuring Range	Up to 15 m depending on concrete quality
Special Features	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 Automatic and manual triggering and user-adjustable trigger threshold A-Scan update rate up to 25 Hz
Transducers	Avaiable Proceq transducers: 54 kHz, 150 kHz, 250 kHz, 54 kHz Exponential, 500 kHz and 250 kHz Shear Wave Connect third party transducers up to 24 kHz, 54 kHz, 150 kHz, 250 kHz, 54 kHz Exponential, 500 kHz and 40 kHz shear wave dry point contact

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