

## Pundit Ultrasonic Pundit 200

Concrete properties analysis using ultrasound pulse velocity



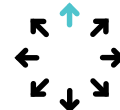
### Diverse

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.



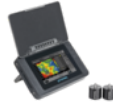
### Automation

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.



## Instrument Tech Specs

<b>Bandwidth</b>	20 to 500 kHz
<b>Technology</b>	Ultrasonic pulse velocity
<b>Measuring Resolution</b>	0.1 us
<b>Pulse Voltage</b>	$\pm 100$ to $\pm 450$ V (UPV)
<b>Receiver Gain</b>	1 to 10'000x (0 to 80 dB)
<b>Nominal Transducer Frequency</b>	24 – 500 kHz
<b>Pulse Shape</b>	Square Wave
<b>Pulse Delay</b>	–
<b>Number of Channels</b>	1
<b>PC Software</b>	PL-Link for analysis and export data to third party applications
<b>Display</b>	7" color rugged touchscreen unit (800 x 480 pixels) with a dual-core processor
<b>Memory</b>	>Internal 8 GB flash memory
<b>Connections</b>	USB host/device and Ethernet
<b>Measurement Modes</b>	<ul style="list-style-type: none"> <li>Pulse velocity</li> <li>Surface velocity</li> <li>Data logging</li> <li>E-modulus</li> <li>Compressive strength correlation</li> <li>Crack depth</li> <li>Line Scan</li> <li>Area Scan</li> </ul>
<b>Measuring Range</b>	Up to 15 m depending on concrete quality
<b>Special Features</b>	<ul style="list-style-type: none"> <li>Zoom and scroll for precise A-Scan inspection</li> <li>On board storage and review of waveforms</li> <li>Settings directly accessible on measuring screen</li> <li>Dual cursor for manual A-Scan evaluation</li> <li>Separate cursor to measure signal amplitude</li> <li>Automatic and manual triggering and user-adjustable trigger threshold</li> <li>A-Scan update rate up to 25 Hz</li> </ul>
<b>Transducers</b>	<ul style="list-style-type: none"> <li>Available Proceq transducers: 54 kHz, 150 kHz, 250 kHz, 54 kHz Exponential, 500 kHz and 250 kHz Shear Wave</li> <li>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</li> </ul>

Image	PartNumber	Description
	32540176	Designed for use on rough or curved surfaces with or without coupling gel.
	32701033	Replacement battery for the display unit. Can be charged externally with the batter charger.
	32701053	Charge an empty battery to 80 % in 3h. Full charge in 5.5 h.
	32540210	Designed for use on rough or curved surfaces with or without coupling gel.

Standards & Guidelines	Description
FOCT 17624	
ASTM C 597-02	
CECS 21	
EN 12504-4	
IS 13311	
ISO 1920-7:2004	

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