Pundit Lab & Lab Plus Ultrasonic Pulse Velocity Tester

Pundit Lab Ultrasonic Pulse Velocity Tester adds a site functionality to the leading ultrasonic test instrument with the Lab plus Ultrasonic Pulse Velocity. Now featuring compressive strength estimation, integrated waveform, real time stamp and an extended range of transducers.

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Lab Ultrasonic Features:

Measurement performance: Optimized pulse shaping, automated transmission settings for optimum performance and a range of new, more powerful transducers ensure accurate, stable measurements.
Integrated waveform display: Provides analysis of the received signal and manual triggering directly on the instrument.
On-line data acquisitions: Full remote control of all transmission parameters, data logging function and functionality that turns your PC into an oscilloscope.
USB interface and data analysis software: Data analysis and export to third party programs.
Open interface: Control Pundit Lab using third party software such as LabVIEW.

Lab Plus Ultrasonic Features:

Integrated gain stage: Removes the need for an external amplifier when using exponential transducers and long cables.
Compressive strength measurement: Conversion curves for strength estimation can be created in the software and uploaded to the instrument to give instant strength estimations on site.
Combined estimates with rebound hammer: SONREB curves can also be uploaded onto the instrument for improved compressive strength estimates in combination with rebound hammer measurements.
Time stamp: A real time clock has been integrated to provide a time stamp to every measurement recorded.
Review list: Saved measurements can be reviewed on site without the need for a PC connection.

Equipment Features Pundit Lab VS. Pundit Lab Plus

Common Features	Pundit Lab	Pundit Lab Plus
Transit time range	0.1-9999 µs	0.1-9999 µs
Resolution	0.1 µs	0.1 µs
Energising pulse	125 V, 250 V, 350 V, 500 V, AUTO	125 V, 250 V, 350 V, 500 V, AUTO
Tx frequency range	24-500 kHz	24-500 kHz
Transit time	Yes	Yes
Pulse velocity	Yes	Yes
Path length	Yes	Yes
Surface velocity	Yes	Yes
Crack depth	Yes	Yes
Memory	> 500 readings	> 500 readings
Power supply	Mains/Battery(>20h)/USB	Mains/Battery(>20h)/USB
IP Classification	IP42	IP42
New Features	**Pundit Lab**	**Pundit Lab Plus**
Integrated gain stage	1x, 10x, 100x	1x, 2x, 5x, 10x, 20x, 50x, 100x, 200x, 500x, 1000x
Compressive strength	-	Yes
SONREB method (Ultrasonic plus rebound hammer for compressive strength)	-	Yes
Time stamp for measurements	-	Yes
Measurement review list on instrument	-	Yes

Analysis Software
The Windows based software Pundit Link, unlocks the full capabilities of the Pundit Lab that provides the user with:
- Waveform visualization and analysis turning your PC into an oscilloscope
- Interactive adjustment of trigger point
- On-line data acquisition
- Full remote control of the instrument programmable data logging functionality
- Export of data to third party applications
- (Pundit Lab Plus ONLY) Creation of conversion curves for compressive strength
- (Pundit Lab Plus ONLY) Creation of SONREB curves for combined estimates of compressive strength

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