ACOUSTIC CONTROL SYSTEMS

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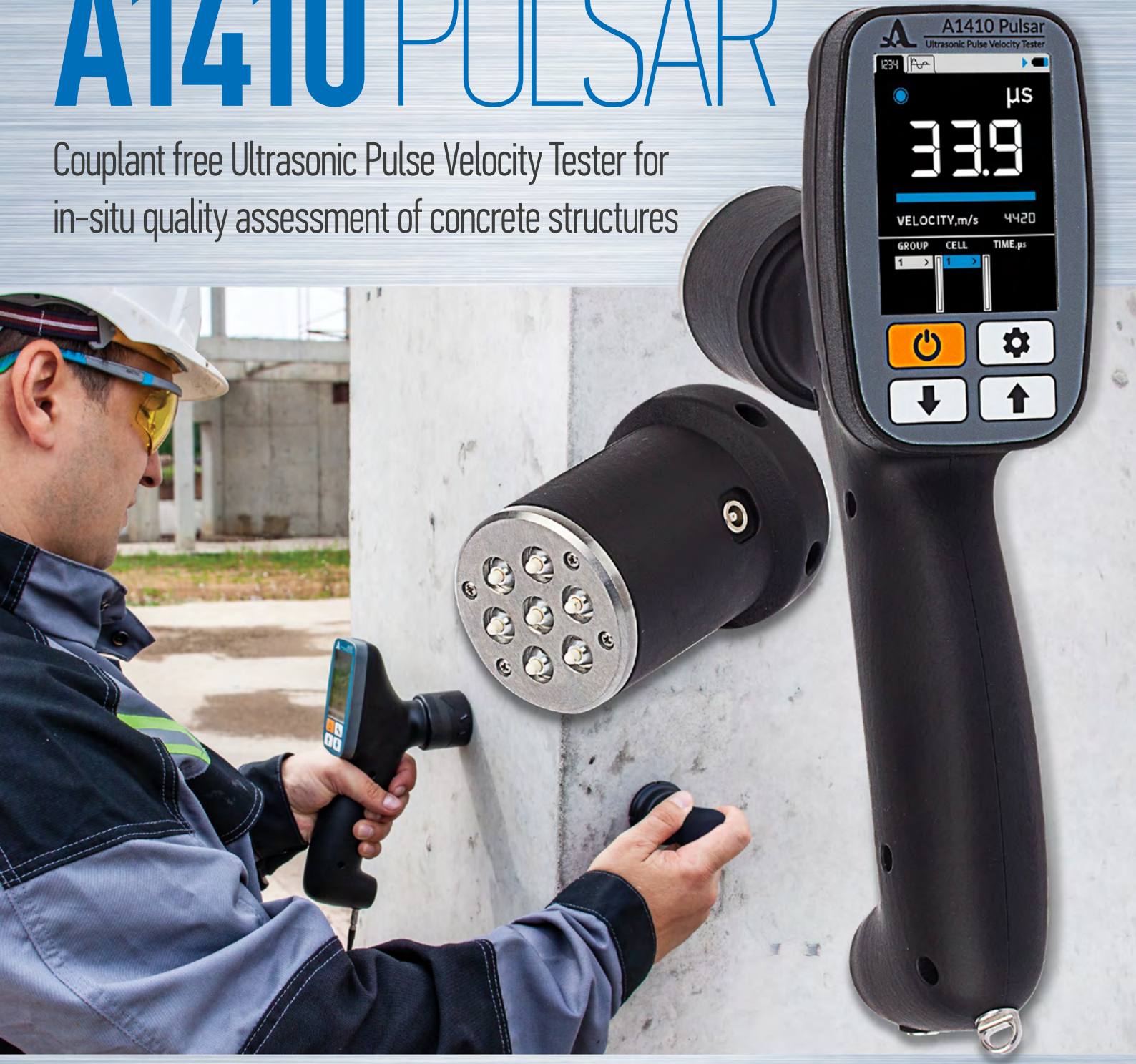
A1410 PULSAR

Couplant free Ultrasonic Pulse Velocity Tester for in-situ quality assessment of concrete structures



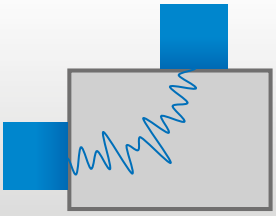
- The world's first pulse velocity testing instrument for couplant-free ultrasonic testing with Dry-Point-Contact transducer arrays
- Up to 2.5 meters thru-transmission capability
- Super-compact and ergonomic design
- Conformity with all relevant international standards

Specification:

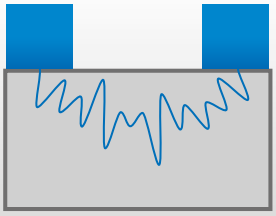
Parameter	Value
Transducer configuration	Array of 7 x DPC transducers, daisy wheel pattern
Operating frequency, kHz	50
Measurement range of sound propagation time, µs	0 to 10,000
Measurement range of the sound velocity, m/s	1,000 to 15,000
Adjustable range of the base size, mm	50 to 2,500
Maximum thickness of the inspection object, mm	up to 2,500 mm (material dependent)
Period of continuous operation, hours	16
Display	2.8", 320×240 pixel
Dimensions of the electronic unit, mm	230X125X65
Weight of the electronic unit, gr	420
Operating conditions:	
External temperature range	from -10 to +55 °C
Relative air humidity at +35°C, %, max.	95

Available measurement modes

Direct thru-transmission



Indirect thru-transmission



Surface thru-transmission

Special features:

- Representation of measurement results in Wave-Form and Digital form
- SonReb Method implemented in Android App
- Automatic gain control for easy-going in-situ setting and operation
- Accurate crack evaluation
- Data transfer to smartphone via Bluetooth
- Data export in Excel
- Compliance with

DIN EN 12504-4

BS 1881 : Part 203 : 1986

ASTM C597 – 16

IS 516 (Part 5/Sec 1) : 2018

Delivery volume:

Name	Quantity, pcs.
Electronic unit A1410 Pulsar with integrated receiver array	1
Transmitter antenna array M1001 0.05A0D25PL	1
LEMO-LEMO single cable 3 m	1
Adapter 220 V – USB	1
Cable USB A – Micro B	1
Certified reference specimen with traceable calibration certificate	1
Hard case	1
Warranty certificate	1
Operating Manual	1

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