

A1220 MONOLITH UPVT

ALL-ROUNDER FOR ULTRASONIC PULSE-VELOCITY TESTING



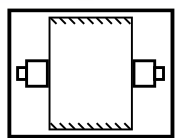
- **Universal UPVT tool** utilizing all types of regular piezoelectric & dry-point-contact (DPC) transducers
- **Ease of use** when measuring pulse velocity, travel time or thickness
- **SAFT imaging on-board** for accurate thickness measurement with one-side access
- **Poisson's Ratio and E-Modulus** for concrete, rock and ceramics when measuring with P- and S-wave DPC transducers



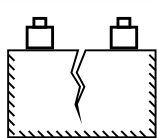
Specification

Parameter	Value
Measurement modes	Transmission / pulse-echo
Frequency range, KHz	20 – 1.000
Transit time, μ s	0.1 – 2.000
Measurement resolution, μ s	0.1
Receiver gain, dB (adjustable with 1 dB step)	0 – 100
Inspection range (depending on concrete quality), meters	up to 15
Pulse voltage, Vpp	40, 200, 400
Operating time with one battery charge, hours	14

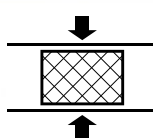
Operation modes



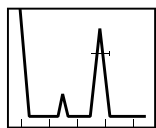
Pulse Velocity Test



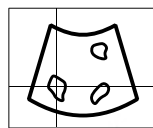
Crack Depth



Elasticity Test



Pulse-Echo Test



2D Tomography

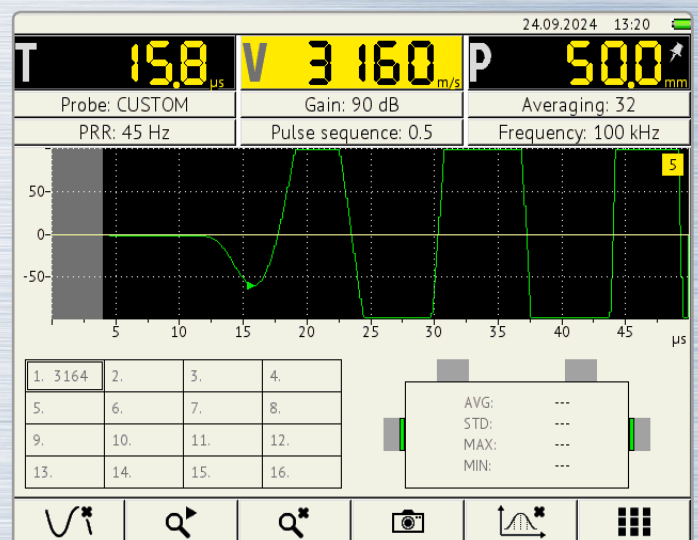
Software functionality

Output readings:

- Transit time
- Path length
- Surface / pulse velocity
- Crack depth
- Measurement scheme
- 2D SAFT image

Other features:

- Zoom and scroll
- Data cursor
- Event detector
- Custom projects
- User-defined delay
- Arbitrary probes



Special features

- Applicable on construction materials: concrete, stone, ceramics, wood, masonry, plastics, polymers, glass, composites, rubber
- Couplant-free inspection of standard concrete cores and tiny samples with unique 250 KHz transducers (dimensions start from 50x50x50 mm³)
- Automatic gain control for easy-going in-situ setting and operation
- Compliance with DIN EN 12504-4, BS 1881 : Part 203 : 1986, ASTM C597 – 16, IS 516 (Part 5/Sec 1) : 2018
- SonReb Method on-board
- Data visualization and processing in INTROVIEW CONCRETE[®] software package (in instrument delivery volume)
- Extraordinary high penetration ability when using 25 kHz transducers

Delivery set

Item	Quantity
A1220 MONOLITH electronic unit	1
Ultrasonic transducers A0208, 50 KHz	2
Cable Lemo00 to Lemo00 1.2 meter	2
Calibration specimen 25 μ s	1
Power supply unit	1
In-situ protective soft cover D12	1
Carrying map case D12	1
Hard case M20	1
* Further ultrasonic transducers for P-wave and S-wave transmission	On request