



ACOUSTIC
CONTROL
SYSTEMS

ACS-SOLUTIONS GMBH
SCIENCE PARK 2, 66123 SAARBRÜCKEN, GERMANY
PHONE: +49 (0) 681-96592270 | FAX: +49 (0) 681-96592280
WWW.ACS-INTERNATIONAL.COM | INFO@ACS-INTERNATIONAL.COM

A1220 MONOLITH UPVT

ALL-ROUNDER FOR ULTRASONIC PULSE-VELOCITY TESTING



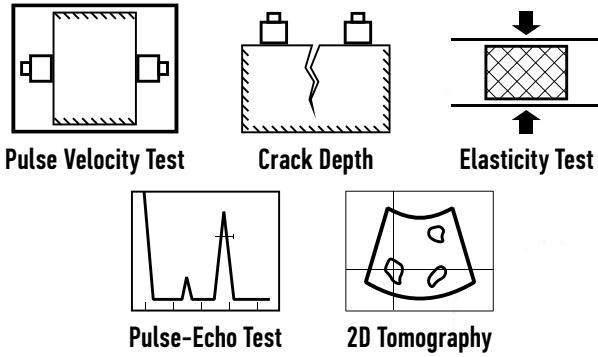
- **Universal UPVT tool** utilizing all types of regular piezoelectric & dry-point-contact (DPC) transducers
- **Ease of use** when measuring pulse velocity, travel time or thickness
- **SAFT imaging on-board** for accurate thickness measurement with one-side access
- **Poisson's Ratio and E-Modulus**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



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

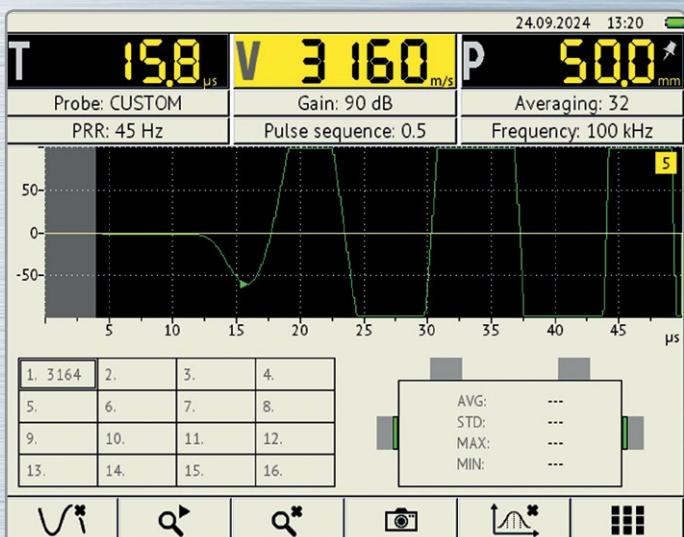
Software functionality

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



Delivery set

Item	Quantity
A1220 MONOLITH – ultrasonic flaw detector electronic unit	1
Single LEMO 00 – LEMO 00 cable 1,2 m (black & red)	2
DPC Transducer S18XX	2
Probe holder MH180-Light for DPC transducers S180XX	2
Calibration block TK300 for S18XX of DPC transducers	1
Net adaptor with cable 220V-15V	1
Carrying map-case D12	1
Soft cover D12	1
Hard case M20	1
*Further ultrasonic transducers for P-wave and S-wave transmission, calibration blocks and probe holders	On request



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