

# A1221 ANCHOR



An **ultrasonic low-frequency tester** for in-situ quality assessment of concrete anchors, **solid rebars and reinforcement.**

## Applications:

The main application field of A1221 ANCHOR is the non-destructive testing of anchor bolts and similar structural elements. Following evaluations can be performed by placing ultrasonic transducer on the free outer end of the bolt:

- Detection of anchor breaks
- Residual length/fraction assessment
- Adhesion quality assessment

## Application feature:

- Assessable bolt/rebar diameter: 20-40 millimeters
- Not grouted assessment length: up to 8 meters
- Minimal assessment length: 0.3 meter
- Assessable grouting depth in concrete: up to 1 meter

## Technical features:

Operating frequency range	kHz 25-250
Maximal data acquisition length	µs 4000
Assessment length	m 0,5-3,0
Assessment length of embedded rods	m up to 1
Assessable rod diameter range	mm 20-40
Material velocity range	m/s 500-15.000
Transmitter output voltage	V: ±20, ±100, ±200
Transmitter pulse form	Bipolar meander, 0.5÷5.0 periods
Pulse repetition rate	1-45 Hz
Gain setup range	dB 0-100, step 1
Number of the programmable points of DAC function	24
Dynamic range of DAC function	30 dB
Power supply	Built-in battery
Operation time	14 h
Tempo di ricarica della batteria	3 h
Display type	TFT (640 x 480)
Electronic unit dimensions	260×156×43 mm
Electronic unit weight	0,8 Kg
Operating temperature range	da -20 a +45 °C
Relative air humidity +35°C, %, max	95% max

## Accessories:

- No.1 A1221 Anchor electronic unit
- No.1 Power adapter AC 80-264 / VDC 15V
- No.1 USB 2.0 Cable USB-A to USB Micro-B
- No.1 Lemoo to Lemoo cable, 2.25m
- No.1 Carrying map case
- No.1 Soft Cover
- No.1 Instrument support
- No.1 Hard shell case
- No.1 Low frequency piezoelectric transducer So205, 25 Khz
- No.1 Low frequency piezoelectric transducer So206, 50 KHz (optional)
- No.1 Low frequency piezoelectric transducer So208, 100 KHz (optional)
- No.1 Rexilite test block

