

[A1220 ANKER]

LOW-FREQUENCY FLAW DETECTOR FOR TESTING ANCHOR BOLTS

Low frequency ultrasonic flaw detector A1220 ANKER is suitable for testing anchor bolts of contact networks metal support foundations and metal searchlight masts with diameter from 24 to 36 mm.

The device allows testing integrity of the anchor bolts (with a length of 3.5 m) of the foundations without excavations when there is an access only to the top edge.

While testing composite anchor bolts it is possible to test only the top part of the bolt to the place of its welding to the reinforcing bar.

The device can also be used to test various lengthy objects (tubes, sticks, rods, sheets and etc) with guided wave method. Inspection is carried out on the object top edge.



DESCRIPTION



The device consists of an electronic unit with a display, where the results of testing are shown in the form of A-scan and a S0205 0.025A0D25CL low-frequency ultrasonic longitudinal wave transducer. The transducer is straight beam, single-crystal, broadband (relative bandwidth is not less than 100%) with liquid acoustic contact and working frequency of 25 kHz.

One of the main features of the transducer is a low level of its own reverberation acoustic noise, short transmitted acoustic pulse (1,5 - 2 periods) and high energy effectiveness.

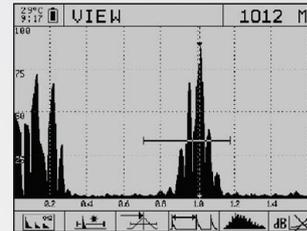
A1220 ANKER uses the echo-method, when the condition of the bolt is evaluated judging by the signal of the ultrasonic reflection from the opposite side of the anchor bolt.

SPECIFICATION

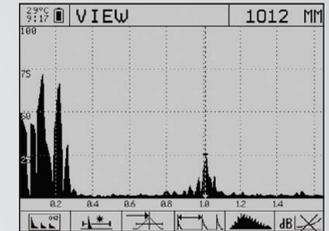
Maximum length of the anchor bolt	3.5 m
Material velocity range	1000 – 9999 m/s
The number of single A-scans, that can be written into memory	200
Power source	6 AA batteries
Operation time (with illumination)	15 (12) h
Operating temperature range	from -10 to +45 °C
Electronic unit size	250 x 120 x 40 mm
Electronic unit weight	750 g

SCREEN TYPES

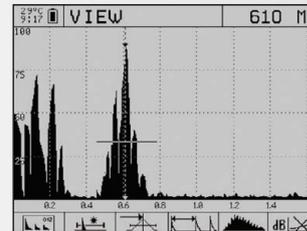
Test results are displayed in A-Scan form in the REVIEW mode.



non monolithic/ fully corroded bolt



without bolt corrosion



when bolt is broken

Test results can be saved in the built-in nonvolatile memory of the device as echo-signal images. The device enables saving more than 200 realizations. The saved results can be transferred to external PC for further handling, storage and printout.

DELIVERY KIT

- A1220 ANKER – ultrasonic flaw detector for testing anchor bolts
- Transducer S0205 0.025A0D25CL
- LEMO 00-LEMO 00 cable, double, 1.2 m
- Set of AA Alkaline 2.6 Ah batteries (6 pcs.)
- USB connection cable
- Case
- Travel bag