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SONIC15

ultrasonic tests Touch screen display

Integrated monitor

Instrument for Ultrasonic Pulse velocity and sonic tests with instrumented hammer

SONIC15 is a device for non Destructive Tests with ultrasonic pulse velocity and sonic tests on masonry through instrumented hammer. In spite of compact dimension of the unit, there is a wide monitor of 7'' with integrated touch screen which allows to use it on site in immediate and effective way. Waves acquisition and visualization parameters could be easily changed in simple and immediate way through touch screen, in order to allow on site first checking of recorded data. SONIC15 can be used for surveys both on cement and concrete elements both on masonry structures. According to different kind of performed tests, just connect to instrument necessary accessories as different kind of ultrasonic probes or impulsive trigger hammer for impact tests. SONIC15 instrument together with the new Controls digital sclerometer can be used for Sonreb tests.

Methodologies

Ultrasonic Pulse Velocity

Sonic test

Sonreb

General

Power supply lithium battery 13Ah

Power consumption 1,1A @ 5V

Operating temperature 0 / +60 °C

Dimensions 220 x 180 x 60mm

Display LCD capacitive 7" TFT touch screen

CPU CortexA8 @ 1 GHz, RAM 500 MB, Flash 1GB memory

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General

Graphic functions	Automatic zoom on cursor or on a temporal set up window, time cursor reading
Regulations	ASTM-C597- 09, UNI EN 12504-4
Weight	800 g

Acquisition

Resolution	12 bit
Signal range	± 2.5 V
Samples per event	2048
Amplification factors	x1, x2, x4, x5, x8, x10, x16, x32
Bandwidth	200 Khz
Ultrasonic filter	central frequency 50 kHz
Differential error	<0.03%
Trigger	trigger button / hammer / automatic

Probes

Typology	Contact
Frequency	23 / 55 / 70 kHz
Trigger	Integrated trigger button on TX probe

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