



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

RSM-SY6(C) - ULTRASONIC PILE INTEGRITY TESTER - 02 CHANNELS CROSS HOLE SONIC TESTER



Application:

- Acoustic pile integrity detection by transmission method
- Concrete crack depth detection
- Concrete strength detection by ultrasonic-rebound combined method
- Longitudinal wave velocity test of rock mass in geological investigation
- Detection of loosen zone of tunnel rock mass
- Test of dynamic and elasticity parameters of non-metallic materials
- Integrity detection of underground diaphragm wall

Applicable standards:

- Standard Test Method for Integrity Testing of Concrete Deep Foundation by Ultrasonic Cross hole Testing ASTM D6760-16

Technical characteristics:

- The automatic counting and lifting device can be connected conveniently and quickly;
- With the new automatic interpretation function, the first wave acoustic time and the Sound amplitude interpretation are more accurate;
- Calculate the depth-wave velocity and depth-wave amplitude curves on-site in time, and the analysis results are clear;
- Small size, light weight and easy to carry;
- Industrial-grade capacitive touch screen, soft touch, smooth and precise operation, adapt to strong light environment;
- High Grade Engineered plastic ABS+PC. Flame retardant material, high temperature resistant design;
- IP65 Dustproof and waterproof design, fearless of the extreme;
- 9mm ultra-thin large-capacity battery, the battery is removable, ensuring uninterrupted work in the field;

- Newly upgraded software, User-friendly control interface.

Principle:

- The objectives of the cross hole sonic logging analyzer are to determine the homogeneity and integrity of concrete between the probes. The data are used to confirm adequate concrete quality or identify zones of poor quality (due to inadequate vibration, segregation due to over vibration and/or improper concrete placement, washouts of cement due to groundwater flow, cracks due to shrinkage, contamination of the concrete, etc.). If defects are detected, then further investigations should be made by excavation or coring the concrete as appropriate, or by other testing methods.

Note:**EIE Instruments Pvt Ltd in Partnership with Wuhan Sinorock Technology Co. Ltd**

- EIE Instruments Pvt Ltd, a leader in civil engineering testing instruments, has partnered with Wuhan Sinorock Technology Co. Ltd, a global expert in foundation pile testing.
- This collaboration brings advanced solutions for Pile Integrity Testing, Dynamic Analysis, Cross-Hole Sonic Logging, Static Load Testing, and Drilling Monitoring, combining EIE's trusted manufacturing and service with Sinorock's innovative technology.
- The partnership provides Indian infrastructure and geotechnical industries with reliable, efficient, and standards-compliant pile testing solutions, supporting engineers and contractors with accurate, safe, and streamlined foundation assessment.



Technical Specification

•Display method	:	8.4-inch true-color LCD screen
	:	Resolution: 800 X 600(adjustable backlight)
•Operation Mode	:	Capacitive touch
•Storage Capacity	:	16G electronic hard disk
•Signal acquisition method	:	Wired
•Data export method	:	USB
•Depth counting method	:	Automatic counting

•Master control form	:	Low power embedded system Basic frequency: 600MHz Memory: 256M
•Number of channels	:	1 transmit channel, 2 number of receiving channels
•Number of profiles tested in a single lifting	:	two profiles
•Scanning Speed	:	>=20 cycles/sec
•Sampling interval	:	0.1~200uS
•Recording length	:	0.5~4k
•Transmit voltage	:	500V/1000V adjustable
•Dynamic range	:	>=100dB
•Gain accuracy	:	0.5dB
•Frequency bandwidth	:	1~500kHz
•Acoustic amplitude accuracy	:	<=3%
•Acoustic time accuracy	:	<=0.5%
•Receiving sensitivity	:	<=10uV
•Intertrack crosstalk	:	<=1/400
•Trigger	:	Signal trigger
•Protection level	:	IP65
•Power supply mode	:	Removable lithium battery
	:	Battery capacity 12000mAh
	:	Battery thickness: 9mm
	:	Battery life: >=28h
•Shell	:	Engineering Plastic: ABS+PC
•Operating Temperature	:	-20~+55°C
•Dimensions	:	265 X 200 X 56mm
•Weight	:	2.0 kg(including lithium battery)

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