

Non Metal Ultrasonic Testing For Concrete

Product name : **Non Metal Ultrasonic Testing For Concrete**

Item : **C62**

Details :

Application

1. Testing of building foundation piles by cross-hole sonic logging
2. Inspection of concrete defects by ultrasonic method, such as uncompacted, cellular, hole area.
3. Detecting strength of concrete by ultrasonic-rebound combine method
4. Detecting strength of concrete crevice by ultrasonic-rebound combine method
5. Detecting defects of one hole by one trigger two receive.
6. Testing dynam performance of geotechnical investigation, rock, concrete etc.

Specification

1. Technology code for testing of building foundation piles
2. Technical Specification of Dynamic Pile Tests for Highway Engineering
3. Technology specification for inspection of concrete defects by ultrasonic method CECS 21 : 2000
4. Technical specification for detecting strength of concrete by ultrasonic-rebound combine method CECS 02: 2005
5. Technical specification for geotechnical investigation method GB50021—2001

Performance

1. **Fast and precise Automatic judge the sound parameters.** Real-time wave display to assure test efficiency;
2. **Humanized software design, software design apply to User and construction plant.** its help information ensure user handle easily
3. **Display the test data graphically.** User can watch analyze result directly
4. **Linking the rebound apparatus directly,** Detecting strength of concrete by ultrasonic-rebound combine method with linking rebound apparatus directly, and get strength of concrete in time. The function apply for national patent.
5. **Being sensitive to receiving signal,** can receive signal more than 10m in concrete without defects.
6. **Supply smooth power for radial energy transducer needless external power**
7. **Standard USB storage with big capacity.**

- 8. Interior lithium battery supply power for apparatus work more than 6 hours.** More than 12 hours combined with external lithium battery, this can match requirement of long time field testing.
- 9. Portable, small, light apparatus (1.75Kg).**
- 10. Extending function for testing thickness of concrete by impacting echo method.**
- 11. Professional and powerful analysis software on windows system. It can export the data to Excel or word for advanced analysis.**

Technical Data

Item	specifications	Item	specifications
Main Control Unit	high-performance Embedded Computer	Display	640×480 High brightness TFT Panel
Input	Keyboard	storage	1G (Internal) + 2G (U-Disk)
interface	USB		
Receive Channel	Two	Max Sample Data length	64k
Trigger Mode	Continuous Trigger, External Trigger	Trigger Voltage (V)	65, 125, 250, 500, 1000 selectable
Receive sensitivity	≤30μv	Amplifier gain	82dB
Amplifier bandwidth	10KHz~300 kHz	Sample Periods	0.05μs~6.4μs, 8 grade selectable
Sound time accuracy	0.05μs	amplifier resolution	0.39%
Power	Interior lithium battery, work more than 6 hours	Size	260 mm×185 mm×60 mm
	External lithium battery, work more than 6 hours (select)	weight	1.75 kg (include lithium battery)
	DC 12V	temperature	-10°C—+40°C
	AC 100V~240V, 50/60Hz		

Configure

Instrument	Signal Cable	Plane energy transducer	U-Disk
Box staff	box	lithium battery(selectable)	rebound appara (selectable)