

Ultracon-170

Ultrasonic Concrete Tester



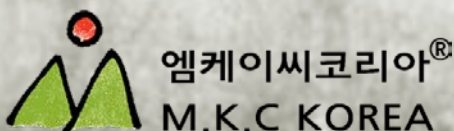
Experience exceptional *stability*, *repeatability*, *accuracy*!

Developed by MKC, this non-destructive testing instrument oscillates ultrasonic waves at 20 kHz to 1,000 kHz to detect the density, elasticity, homogeneity, void or cavity, deterioration due to aging, carbonation phenomena of materials including concrete, stone and wood can be measured. Especially, it is applied to the strength test and hardening measurement of concrete. The Ultracon-170 provides excellent performance in stability, reproducibility, and accuracy from thin materials such as rocks and metals to thick concrete, while minimizing noise while using a high voltage of 1,200V in analog circuitry.

Features of Ultracon-170:

- High power pulser (1,200V / 600V) that generates strong ultrasonic energy, receiver with high receiving sensitivity, and high efficiency ultrasonic probe designed to transmit ultrasonic wave most efficiently in concrete. It is excellent in thick material and damping material performance.
- Separate menus for direct method, indirect method and crack measurement, color display for viewing measurement results at a glance.
- Compact design that is easy to use in maintenance of concrete facilities, measurement of strength of wood or stone, aging inspection field and laboratory of stone and soil material cultural property.
- Software that allows you to send the measured data to a notebook to produce reports, and a program that allows you to analyze the transmitted waveform. (optional)
- Sequentially acquire signals from an ultrasonic probe connected to 2 to 20 test vessels and monitor the hardening status of the mortar over time. (optional)

MKC imports, supplies, or customizes advanced ultrasound equipment. For detailed specifications and other items, please refer to mkckorea's homepage or YouTube video.



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Configuration of Ultracon-170:

- Ultrasonic tester body and pouch
- 54kHz ultrasonic transducer (2EA)
- RG58 cable with BNC to XTR-9
- Ultrasonic couplant
- Reference block
- User's Guide
- Portable aluminum bag



Main body



Pouch



Transducer



Cable



Couplant



Reference block



User's Guide



Aluminum bag

Ultracon-170 Specifications:

- Ultrasonic transmission time measuring range: $0.1 \mu\text{s} \sim 6,500.0 \mu\text{s}$
- Display: 320 X 240 TFT Color LCD
- Frequency range used: 10kHz ~ 1,000kHz
- Measurement cycle: 5Hz, 10Hz, 20Hz
- Display cycle: 2Hz
- Receiver sensitivity: $250 \mu\text{V}$
- Connector: BNC/BNC
- Operating temperature: $-10 \sim 50^{\circ}\text{C}$
- Power: Two rechargeable lithium-ion 18650 batteries. (7.4V, 3,350mA)
- Battery life: 10 hours continuous use at 1,200V
- Size: 105(H) × 172(W) × 68mm(D)
- Weight: 1,060g (Body with battery)
- Warranty: 1 year

