



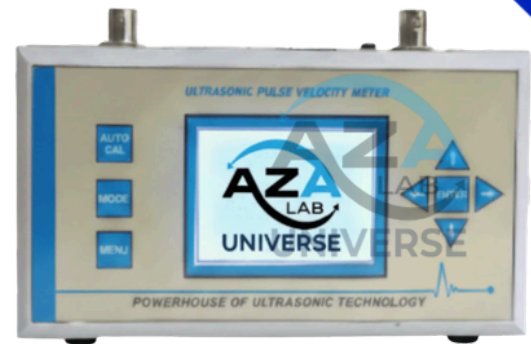
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ULTRASONIC CONCRETE TESTER AZA1151A

The AZA1151A Ultrasonic Concrete Tester (UCT) is a next-generation non-destructive testing (NDT) system designed for advanced evaluation of concrete quality, uniformity, and structural integrity.

Built with modern digital architecture, touchscreen interface, and smart data management, it provides highly accurate and traceable test results for both field and laboratory environments.

The system measures ultrasonic pulse transmission to assess internal defects such as cracks, voids, and discontinuities while also enabling indirect estimation of concrete strength and homogeneity. Compliant with major international standards, the AZA1151A ensures globally accepted and reliable results across construction, infrastructure, and research applications.



Key Applications

- Non-destructive strength assessment of in-situ and precast concrete
- Detection of cracks, voids, honeycombing, and internal defects
- Homogeneity and uniformity evaluation
- Crack depth measurement and structural diagnostics
- Testing of bridges, dams, tunnels, high-rise buildings, and industrial structures
- Research, laboratory testing, and academic studies

Compliance & Standards

Designed in accordance with international standards:

- IS Standards (Ultrasonic Pulse Velocity)
- BS 4408 / BS 1881
- ASTM C597



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TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	AZA1151A
Measurement Range	10 μ s – 9999.9 μ s
Accuracy	\pm 0.1 μ s
Resolution	\pm 0.1 μ s
Transducer Frequency	50–100 kHz (25 kHz optional)
Testing Range	Up to 4–5 m (50 kHz), >5 m (25 kHz)
Display	3.2" Digital Touchscreen LCD
Operation Modes	Time, Velocity, Crack Depth
Signal Indicator	Real-time (%) display
Data Storage	Multi-site, virtually unlimited logs
User Accounts	50 (1 Admin + 49 Users)
Connectivity	USB, Android App, PC Software
Power Supply	Rechargeable 7.2 V Li-Ion Battery
Operating Temperature	0°C to 50°C
Time Stamp	Built-in RTC