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## **ULTRASONIC PULSE VELOCITY TESTER AZA1151**

The AZA1151 Ultrasonic Pulse Velocity (UPV) Tester is a high-precision non-destructive testing (NDT) instrument designed to evaluate the quality, uniformity, and structural integrity of concrete and other construction materials. By measuring the travel time of ultrasonic pulses through a material, the device detects internal flaws such as cracks, voids, honeycombing, and discontinuities.

Engineered for both field and laboratory applications, the AZA1151 combines digital accuracy, portability, and robust construction. Its intuitive interface and data logging capabilities make it an essential tool for engineers, consultants, quality control inspectors, and research professionals.



### **Key Applications**

- Quality evaluation of concrete in bridges, dams, tunnels, and buildings
- Detection of cracks, voids, honeycombing, and internal defects
- Monitoring uniformity and homogeneity during concrete curing
- Testing of rocks, bricks, and other construction materials
- Structural health assessment and condition monitoring
- Research, laboratory testing, and academic studies

### **Compliance & Standards**

Manufactured in accordance with internationally recognized standards:

- ASTM C597 – Pulse Velocity Through Concrete
- IS 13311 (Part 1) – Ultrasonic Pulse Velocity



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**TECHNICAL SPECIFICATIONS**

<b>Parameter</b>	<b>Specification</b>
Model	AZA1151
Measurement Principle	Ultrasonic Pulse Velocity
Display	Digital LCD
Data Storage	Up to 500 readings
Connectivity	USB
Power Supply	Rechargeable Lithium Battery
Operating Temperature	0°C to 45°C
Dimensions	Approx. 250 mm × 100 mm × 50 mm
Weight	Approx. 2.0 kg
Standards	ASTM C597, IS 13311 (Part 1)

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