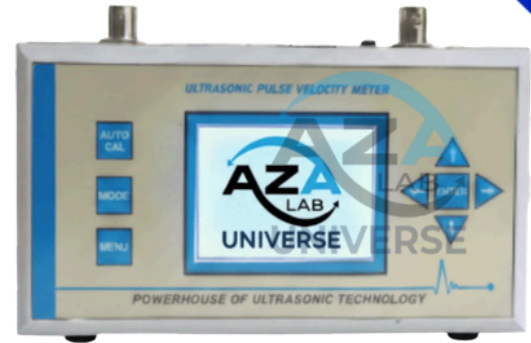




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## **ULTRASONIC CONCRETE TESTER AZA1151B**

The AZA1151B Ultrasonic Concrete Tester (UCT) is a portable, non-destructive testing (NDT) instrument designed to evaluate the strength, quality, and uniformity of concrete in both in-situ and precast applications. Built for practical field use, it offers a balance of simplicity, accuracy, and operational stability, making it ideal for construction sites, laboratories, and quality control environments. The instrument measures the time of flight of ultrasonic pulses through concrete and uses this data to determine pulse velocity, which correlates with material integrity and mechanical strength.



### **Key Applications**

- Non-destructive quality assessment of in-situ and precast concrete
- Detection of cracks, voids, and internal discontinuities
- Evaluation of concrete homogeneity and uniformity
- Structural inspection and condition assessment
- Elastic property determination (with optional shear wave probe)
- Laboratory testing and academic research

### **Compliance & Standards**

Conforms to national and international testing standards:

- IS Standards (Ultrasonic Pulse Velocity)
- BS 4408 (Part V – 1974)
- BS 1881
- ASTM C597



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**TECHNICAL SPECIFICATIONS**

<b>Parameter</b>	<b>Specification</b>
Model	AZA1151B
Measurement Mode	Time (Through Transmission)
Measurement Range	10 $\mu$ s – 9999.9 $\mu$ s
Resolution	$\pm$ 0.1 $\mu$ s
Calibrated Accuracy	$\pm$ 0.1 $\mu$ s
Timing Accuracy	Up to 100 nanoseconds
Display	5-digit Digital Display
Transducer Type	Contact Type
Transducer Frequency	50–100 kHz (25 kHz optional)
Testing Range	Up to 4–5 m (50 kHz); >5 m (25 kHz)
Operating Temperature	0°C to 50°C
Power Supply	7.2 V DC Li-Ion Battery

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