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Product Name :

Ultrasonic Pulse Velocity Tester

Product Code :

SLE/CE/42



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Description :

Ultrasonic Pulse Velocity Tester (Product Code: SLE/CE/42) is a non-destructive testing instrument used to measure the transit time of ultrasonic waves through concrete, so that its uniformity, internal defects and strength can be evaluated in structural testing and civilengineering laboratories. It works with 52 kHz transducers designed to send and receive signalseffectively in highly attenuative materials such as concrete, wood, stone and plastic. It ismanufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as part of itsrange of engineering lab equipment in India.

Specifications

Parameter	Detail
Measurement	Ultrasonic transit time through the material
Transducer frequency	52 kHz concrete transducers
Suitable materials	Highly attenuative materials including concrete, wood, stone and plastic
Pulse generation	High voltage applied to the transmitting transducer; wave received by the receiving transducer through the concrete
Investigations	Uniformity, cavities, cracks, fire or frost damage, delamination, deterioration and strength
Principle	Higher elastic property or strength gives a shorter transit time; weaker material gives a lower velocity
Product code	SLE/CE/42
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is a UPV Tester Used For?

The velocity of an ultrasonic wave in concrete depends on the material's elastic properties and strength. The tester applies a high-voltage pulse to the transmitting transducer, the wave travels through the concrete to the receiving transducer, and the instrument measures the transit time accurately. Dividing the path length by that time gives the pulse velocity: sound, dense concrete returns short transit times, while cracks, voids or weak zones slow the wave down.

Engineers use it to map uniformity across a structure, locate cavities and cracks, assess fire or frost damage and delamination, and track deterioration over time. Couple the transducers to clean, smooth surfaces with a suitable couplant, measure the path length carefully, and compare readings taken the same way. Paired with a rebound hammer, it forms a practical set of test and measurement instruments for condition surveys in India and international markets.

Manufacturer

Jain Scientific Equipments Private Limited, which trades as ScienceLab, manufactures this Ultras
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