Used for measuring Ultrasonic Pulse Velocity (UPV) in Concrete for Non-Destructive Evaluation (NDE) using two probe method.

Purpose/ Application:

1. To do Consultancy/ Structural Auditing/ NDT (finding velocity in concrete like Beams, Columns, Slabs).
2. To test bridges, dams made up of concrete or rock.
3. To do NDT in heritage building made up of rocks.
4. Testing of metro pillars and girders.
5. Testing of Plywood, trees, marbels etc.
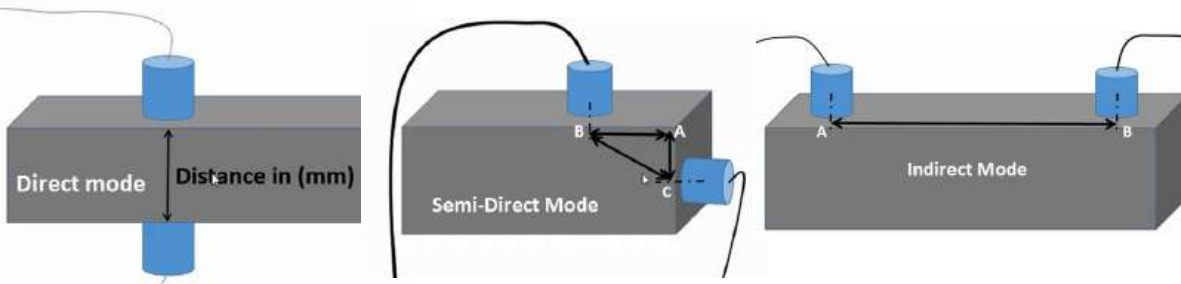
Features:
1. Burst Mode for stable reading to avoid fluctuation.
2. Freeze of reading on display even after removing transducer probe from concrete.
3. Android App for indirect mode velocity calculation and graph plot as per IS516
4. Record & Storage facility for up to 1000 reading records.
5. USB Interface for downloading stored records to PC.
6. In-built re-chargeable battery gives long operational back up.
7. Lightweight, Compact size with ABS plastic enclosure.

Specification:
1. Measurable Path Length Up to: - 3-4 meters in good quality concrete.
2. Time Measurement Ranges: - 0.1-9999.9µs

Vedantrik Technologies

311, Sagar Industrial Estate, Western Express Hwy, Dahisar East, Mumbai- 400068.

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Ultrasonic Pulse Velocity Meter

3. Ultrasonic pulse Velocity Meter (Make: Indian Range: 3-4 m)
4. Measurement Parameters: time and Velocity.
5. Time Base:-10MHz Quartz.
6. Frequency of Transducers: Standard: 54 KHz (Nominal).
7. User Interface: OLED Display, Keypad & PC interface.
8. **PC Interface:** Measurement Log Download.
9. Operator Adjustments: Calibration using Calibration rod.
10. Battery Operating Capacity: - 8 Hrs. Maximum.
11. Operating Temperature Range: - 0 to 50 °C.
12. Size Weight:- W-180 mm x H-55 mm x D-240 mm
13. Main Instrument: 1.90 Kg

Extra Support Given By Vedantrik Technologies:-

1. Two calibration rod as per IS516.
2. And training will be given to user along with training certificate to your employees.

Android App
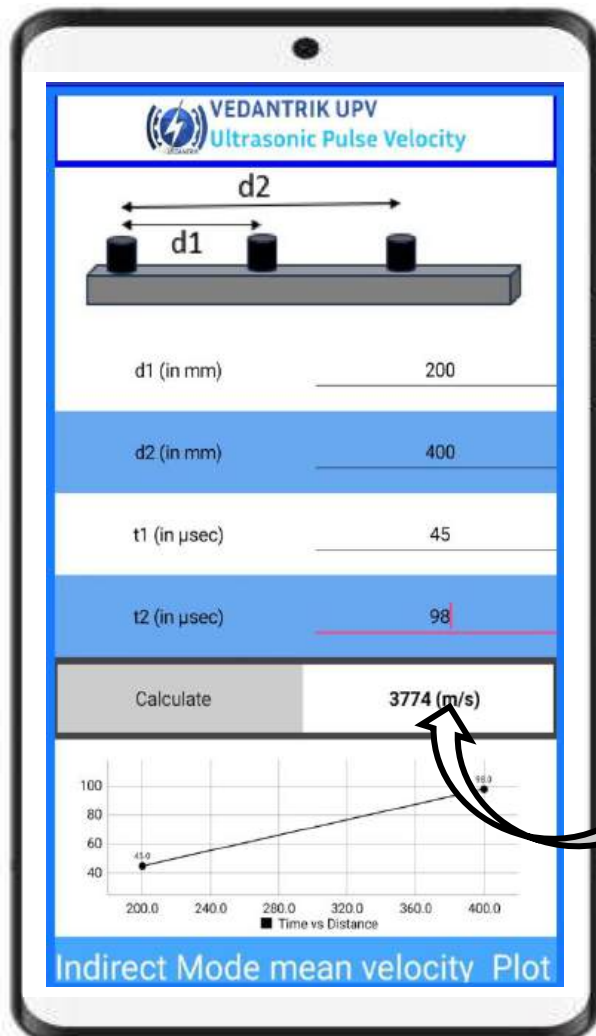
Conventional method for Determination of Pulse Velocity in Indirect mode Transmission:

1. Take number of readings for plotting graph time Vs distance
2. Take suitable scale for graph plot on paper
3. Make the Graph time Vs distance with the help of readings.
4. Find out tanθ from the plotted graph.
5. Inverse of tanθ shall be measured as mean velocity in indirect mode as per IS516.

To avoid above Conventional method and the Tedious Calculation refer our Android App in which graph is automatically plotted to find mean velocity in the indirect mode as per IS516.

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