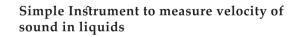
## ULTRASONIC INTERFEROMETER (FOR LIQUIDS)

## Model BL02

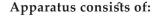


Working Principle

The Principle used in measuring the velocity by means of an Ultrasonic Interferometer is simple and is based on the accurate determination of wavelength ( $\lambda$ ) in the medium. If the frequency of sound vibration (f) is accurately known, the sound velocity (V) can be calculated according to the relation

Velocity = wavelength x frequency  $V = \lambda x f$ 



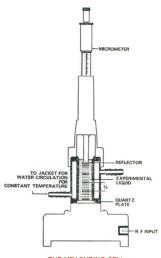


- High Frequency Generator
- Measuring Cell
- Connecting Cable

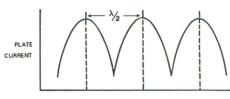
## **Salient Features:**

- Very Small amount of liquid required
- Accuracy of measurement depends upon Micrometer provided
- Available with Micrometer of 0.01mm and 0.001mm Least Count
- Can be used for measuring over a wide range of temperature
- Jacket for water circulation to maintain constant temperature
- Measurement can be made on liquids
- No danger of change like depolymerisation in liquid as very low ultrasonic energy is used for measurement

Improved Circuit -Easy Adjustment of Gain & Meter



THE MEASURING CELL



POSITION OF REFLECTOR