

Product Name :
Wavelengths And Frequencies With A Quincke Tube
Multimeter

Product Code :
ELABBATE 003



Description :

Wavelengths And Frequencies With A Quincke Tube Multimeter

Technical Specification :

Wavelengths And Frequencies With A Quincke Tube Multimeter Principle: When a sound wave of a particular frequency is divided into two coherent components (like, for example, light waves in an interferometer experiment), and if the path of one of the component waves is altered, it is possible to calculate the wavelength of the sound wave and its frequency from the interference phenomena recorded with a microphone. Tasks: Record the extension of a Quincke tube for given frequencies in the range 2000 Hz to 6000 Hz. Calculate the frequencies from the wavelengths determined and compare them with the given. What you can learn about: Transverse and longitudinal waves Wavelength Amplitude Frequency Phase shift Interference Velocity of sound in air Loudness Weber-Fechner law