Physics Lab Equipments



Physics Lab Equipments & Experimental Setups

ME 866 - Velocity of Sound by End Correction Objective:

· To determine the wave length of sound in air using stationary waves and to alculate the speed of sound by one resonance position and applying end correction.

Setup Consist of:

- · Resonance tube apparatus
- · Three tuning forks of different frequencies
- Rubber pad
- Thermometer :-10 to 110 Degree C : Least count - 0.01cm Vernier caliper

Range :15cm



ME 866A - Velocity of Sound By Two Resonance Positions

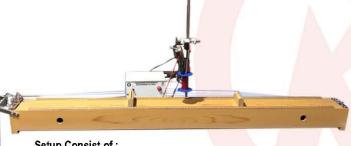
To determine the wave length of sound in air using stationary waves and to calculate the speed of sound by using two resonance positions.

Setup Consist of:

- Resonance tube apparatus
- Three tuning forks of different frequencies
- Rubber pad
- Thermometer :-10 to 110 Degree C Vernier caliper :Least count - 0.01cm
 - Range :15cm



ME 867 - To find the frequency of A.C mains by using sonometer



Setup Consist of:

- Sonometer with magnetic wire (iron/steel wire) stretched over it
- Electromagnet
- Step Down Transformer: 0 6 8 Volts (ME 222)
- Two wooden wedges
- Slotted weight : 2.5 kg

ME 868 - Determine the dispersive power of the material of the prism for violet & yellow colors of mercury light with the help of spectrometer



Spectrometer : 6 Inch, Least count - 30 Sec.

Prism :32 mm

Mercury Vapour Lamp 80 Watt fitted in Box With Transformer

ME 869 - To verify the expression for the resolving power of a telescope

Setup consist of:

- · Low power telescope
- Micrometer slit : Least count - 0.01mm
- (with A rectangular adjustable slit)
- Parallel double slit scratched on glass slide
- Light source of narrow opening
- · Measuring tape :3 Meters

ME 869B - To determine the resolving power of a plane transmission grating and to verify the result.

Setup Consist of:

:6 Inch, Least count - 30 Sec. Spectrometer

 Diffraction Grating : 15000 lines/inch

: 35 Watt Sodium vapour lamp housed in powder Light Source

coated Steel cabinet with Transformer & Stand

· Micrometer sllit : Least count - 0.01mm

(with A rectangular adjustable slit)

ME 869A - To determine the resolving power of a prism Setup consist of:

Spectrometer :6 Inch, Least count - 30 Sec.

Light Source : 80 Watt Mercury vapour lamp housed in powder coated Steel cabinet with Transformer & Stand

: Crown Glass (base 3.2cm)

 Micrometer slit : Least count - 0.01mm

(with A rectangular adjustable slit)

