



Nvis 6043 Experimentation with Thermal Expansion (Pullinger's Apparatus) illustrates the concept of conduction of heat in solids. With the help of this product one can understand how Linear Thermal expansion occurs in solids. Pullinger's Apparatus is used to determine Coefficient of Linear Expansion of a given sample. Thermal Expansion Coefficient is a thermodynamic property of a substance or we can say Thermal Expansion is the tendency of matter to change volume in response to a change in temperature.

Features

- Precise measurement by Spherometer
- Electric Oven is provided for heating
- Buzzer indicator
- Samples for study-Copper, Brass, Aluminum
- Self-contained and easy to operate
- Online product tutorial

Scope of Learning

- To determine the coefficient of Linear Expansion of a given Sample
- Comparison of the coefficient of thermal expansion of given samples of material & verification of

$$a_{\text{copper}} < a_{\text{brass}} < a_{\text{aluminium}}$$



Technical Specifications

Steam Jacket

Type	: Brass
Length	: 50cm
Diameter	: 11mm Inner 32mm Outer

Sample

Type	: Copper, Steel, Aluminum
Length	: 52cm
Diameter	: 10mm

Spherometer

Main Scale	: 10 - 0 - 10mm
Circular Scale	: 100 divisions
Least Count	: 0.01mm

Buzzer Indicator : 1.5 - 15V DC

Mains Supply : 230V ±10%, 50Hz

Adaptor Output : 5V, 500mA