

# Measurement of Linear Displacement using LVDT with Digital Display

**Model : SE-1019**



**SINCOM SE-1019 Measurement of Linear Displacement using LVDT** is an exceptional trainer designed for measuring linear displacement using an LVDT transducer. This comprehensive trainer comes with a  $3\frac{1}{2}$  digit LED Displacement Indicator, allowing for precise and accurate measurements. It also features calibration control, AC excitation input control, and a marked displacement scale, making it easy to track and analyze displacement input.

## Features

- ❖ LVDT Transducer
- ❖ Digital Displacement Indicator
- ❖ High Sensitivity
- ❖ Wide Displacement Scale
- ❖ Easy Calibration Control
- ❖ Variable AC Source Input
- ❖ In-Built Fixed regulated DC Power Supply
- ❖ Presents a multi-color Circuit Diagram printed on the front panel of the white board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ Interconnections by 2mm high quality banana sockets and pins.

## Technical Specifications

- |                                   |                           |
|-----------------------------------|---------------------------|
| ▪ AC Mains Power Supply           | : $230V \pm 10\%$ , 50Hz  |
| ▪ Fixed Regulated DC Power Supply | : $+5V, \pm 12V / 500mA$  |
| ▪ Transducer                      | : LVDT                    |
| ▪ LVDT Displacement               | : $\pm 20mm$ (40mm total) |



An ISO 9001:2015 Co.

▪ Displacement Scale	: Linear $\pm 20$ mm
▪ Displacement Display (mm)	: Red Color $3^{1/2}$ Digit LED Display
▪ Excitation Frequency	: 4KHz
▪ Excitation Voltage	: AC variable 5V
▪ Sensitivity	: 10 mV DC/mm
▪ Calibration Control by	: Potentiometer
▪ Weight	: 4.0 kg (approx)
▪ Dimensions (mm)	: L 270 x W 390 x H 130
▪ Interconnections	: 2mm Banana sockets
▪ Operating Temperature	: 0-55°C, 80% RH

### Learning Scope

- To study the Displacement (length) Measurement using LVDT.
- To study the operation of a Linear Variable Differential Transducer (LVDT).
- To Observe and note the Displacement output on display w.r.t. core displacement in mm.

### Other Instruments Required : Nil

**Accessories Included :** Set of Patch Cords, Detail Instruction Manual.