

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

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|-----------------------------------|---------------------------|
| ▪ 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.

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|-----------------------------|---|
| ▪ Displacement Scale | : Linear $\pm 20\text{mm}$ |
| ▪ 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 ⁰ 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.