



An ISO 9001:2015 Co.

Angular Displacement Measurement Using Potentiometer

Model: SE-1046

SINCOM SE-1046 Angular Displacement Measurement using Potentiometer is a versatile trainer designed for studying the measurement of angular displacement using potentiometer transducer. It allows users to analyse the angular displacement behaviour of potentiometer when subjected to variable DC input voltage. The potentiometer features an on-board 0-360° marked shaft angle dial, providing precise control and LED type Displacement Indicator.

This has Built-In DC +5V/+12V/500mA regulated fixed Power supply, On board DC Input with amplitude control, Rotary type Potentiometer, Electronics control circuit wired with detection and calibration circuit to study the measurement of angular displacement using Potentiometer, Displacement Indicator 3^{1/2}digit (4 Digit) LED type, facility to control Source input, facility of calibration control, Angular scale, complete setup with maximum test points.

Features

- ❖ Rotary type Potentiometer Transducer.
- ❖ 0-360° marked shaft angle dial.
- ❖ Displacement Indicator 3^{1/2} digit (4 Digit) LED type
- ❖ In-Built Variable regulated DC Power Supply.
- ❖ Facility to Control Source Input.
- ❖ 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 ±10%, 50Hz
▪ Regulated DC Power Supply	: Variable 0 to +12V
▪ No. of Potentiometer	: 01
▪ Potentiometer Transducer	: One 10K Rotary type
▪ Dial Shaft angle	: 0-360°
▪ Displacement Indicator	: 3 ^{1/2} digit, LED type
▪ Maximum Forward Current	: 100 mA
▪ Maximum Output Voltage	: 12V
▪ Weight	: 3.0 kg (approx)
▪ Dimensions (mm)	: L 220 x W 270 x H 110
▪ Interconnections	: 2mm Banana sockets
▪ Operating Temperature	: 0-55°C, 80% RH

Learning Scope

- To study the operation of a Linear Potentiometer.
- To study the Displacement (length) Measurement using Potentiometer
- To Observe and note the output on display w.r.t. angular displacement

Other Instruments Required : Digital Multimeter

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