Characteristics of Potentiometer & its Loading Effect

Model : SE-1028

SINCOM SE-1028 Characteristics of Potentiometer & its loading effect is a versatile trainer designed for studying the characteristics & loading effect of potentiometers. It allows users to analyze the behaviour of these potentiometers when subjected to variable DC input voltage and multiple resistors. The potentiometer features an on-board 0-300^{O} marked shaft angle dial, providing precise control and measurement for both types of potentiometers.

Features

- Two Linear Potentiometers
- 0-300^{O} marked shaft angle dial
- In-Built Variable regulated DC Power Supply
- Resistors Bank
- Facility to connect the External meters.
- 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	: 02
Linear Potentiometer	: Two 10K Multi turn Pot
Dial Shaft angle	: 0-300^{O}
Current Controlling Resistor	: 1KΩ, ±5% in series
Maximum Forward Current	: 50 mA
Maximum Output Voltage	: 12V
Loading Resistors	: Four Fixed resistors
Weight	: 3.0 kg (approx)

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- Dimensions (mm) : L 220 x W 270 x H 110
- Interconnections : 2mm Banana sockets
- Operating Temperature : 0-55^{0}C, 80% RH

Learning Scope

- To study the Potentiometers.
- To study the Characteristics of Linear Potentiometers.
- To plot the graph of shaft position Vs Resistance of Linear Potentiometer.
- To study the loading effect of the potentiometers & to calculate loading error.

Other Instruments Required : Digital Multimeter

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