



The measurement of position and displacement of physical objects is essential for many applications such as process feedback control, performance evaluation, transportation traffic control, robotics, and security systems—just to name a few. By position, we mean the determination of the object's coordinates (linear or angular) with respect to a selected reference. Displacement means moving from one position to another for a specific distance or angle. In other words, a displacement is measured when an object is referenced to its own prior position rather than to another reference.

Potentiometric Displacement Sensor, Sciencetech 2314 is designed to learn details of Displacement Sensor. The simplest type of Displacement Sensor involves the action of displacement in moving the wiper of a potentiometer. This device then converts linear or angular motion into a changing resistance that may be converted directly to voltage and/or current signals.

Scope of Learning

- Study and measurement of linear displacement.
- Study and measurement of angular displacement.

Features

- Self-contained and easy to operate.
- Sensitive, Linear, Stable & Accurate.
- Built in DC Power Supplies.
- Micrometer for displacement measurement.
- Calibrated dials for output position.
- Servo Potentiometers with full 360°
- Online Product Tutorials

Technical Specifications

Sensor Type	: Potentiometric
Linear displacement	: 0 to 15 mm
Measurement Range	
Micrometer Scale	: 25 mm
Micrometer Least count	: 0.01 mm
Angular displacement	: 0 to 360°
Measurement Range	
Input	: 5 V DC
Linear output	: 0 - 3V DC
Angular output	: 0- 5V DC
Test Points	: 6 nos.
Mains Supply	: 110-260 V AC; 50/60 Hz
Dimensions (mm)	: W 255 × D 155 × H 80
Operating Conditions	: 0-40° C, 85% RH
Weight	: 1 Kg. (approximately)
Product Tutorials	: Online (Theory, procedure, reference results, etc)
Included Accessories	: Mains cord -1no