



Sciencetech LVDT 2303 is designed to teach LVDT Characteristics. LVDT (Linear Variable Differential Transformer) is the most widely used inductive transducer for displacement measurement. LVDT is a secondary transducer which converts the displacement directly into an electrical output proportional to the displacement. Sciencetech 2303 has seven-segment LED display showing displacement in mm with a sensitivity of 10mV/mm in the range of 10mm. Sciencetech 2303 is self contained single box design and easy to use.

Features

- Self-contained and easy to operate
- Sensitive, Linear, Stable & Accurate
- Functional blocks indicated on board mimic
- 3½ digit LED display with polarity indicator
- Onboard LVDT displacement measurement jig with micrometer
- Onboard Excitation Generator
- Amplitude adjustment for Excitation Generator
- High repeatability and reliability

Scope of Learning

- Study of Input Output characteristics of LVDT
- Determination of linear range of operation of LVDT
- Determination of sensitivity of LVDT
- Measurement of phase difference between LVDT secondaries

Technical Specifications

Measurement Range	:	20 mm (± 10 mm)
Excitation Frequency	:	4 KHz (approximately)
Excitation Voltage	:	4 V _{pp} (approximately)
Sensitivity	:	10 mV DC/mm
Linear Range	:	Full Scale
Signal conditioner output	:	0.1 V DC or Maximum Displacement
Display	:	3½ Digit LED with Polarity Indicator
Micrometer Scale	:	25 mm
Micrometer Least count	:	0.01 mm
Test points	:	8 nos.
Power Consumption	:	2 VA (approximately)
Dimensions (mm)	:	W 326 x D 252 x H 52
Power Supply	:	110V - 260V AC, 50/60Hz
Weight	:	1.5Kg (approximately)
Operating Conditions	:	0-40°C, 85% RH
Product Tutorial	:	Online on www.ScientechLearning.com
Included Accessories	:	Mains cord-1no. Patch cord 16" (2mm) -2nos.