db-tech

LINEAR VARIABLE DIFFERENTIAL TRANSFORMER

DB-719LVDT

General Description:

DB-719LVDT is designed to learn basics of LVDT transducer. The main emphasis is on the basic working prin-ciple and characteristics of LVDT transducer. The trainer has seven-segment LED display showing displacement in millimeters with a sensitivity of 10mV/mm in the range of ±10mm. Model DB-719LVDT is fully covered self-contained box design and easy to use.

LVDT is the acronym for Linear Variable Differential Transformer. The LVDT is a non-conducting linear displacement transducer, which works on the principle of mutual inductance, producing an electrical signal, which is proportional to a separate moving core (or armature).

Specification

Measurement Range:	20 mm (±10 mm)
Excitation Frequency:	2 KHz (approximately)
Excitation Voltage:	4 Vpp (approximately)
Sensitivity:	10mV DC/ mm
Linear Range:	Full Scale
Signal Conditioner Output:	0.1V DC for Maximum Displacement
Display:	3½ Digit LED with Polarity Indicator
Micrometer Scale:	25 mm
Micrometer Least count:	0.01 mm
Test Points:	8 in numbers
Power Requirement:	230 V ±10%; 50 Hz
Weight:	3.5 Kgs. (approximately)