



52094 Instrumentation trainer has been designed specifically for Displacement Measurement using Capacitive & Inductive Pick-Up System. The trainer consists of Linear Variable Differential Transducer (L.V.D.T.) for Capacitive Pick-Up System & Slidable Movable Capacitive Plates for Capacitive Pick-Up System. The board is absolutely self contained & requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

Object:

1. Displacement measurement using inductive pick-up system
2. Displacement measurement using capacitive pick-up system.

Features:

The instrumentation trainer consists of the following:

1. One board having the following built in parts.
 - 1.1 $\pm 12V$ D.C. at 50mA I.C. regulated Power Supply for Sine wave Oscillator.
 - 1.2 4 KHz fixed Sine wave Oscillator having variable amplitude 0–10V P–P for LVDT & 2V P–P for Capacitive Transducer.
 - 1.3 Digital Panel meter $3\frac{1}{2}$ digits range 200mV.
 - 1.4 Detector circuit with output adjustment pot.
2. Transducer: Linear variable differential transducer (L.V.D.T.).
Range : ± 20 mm.(Accuracy ± 1 mm, ± 1 Digit)
Moving action : 6 wires, spring loaded type axial.
3. Transducer: Capacitive Transducer Type Slidable Pipe.
Range : ± 10 cm.(Accuracy ± 1 mm, ± 1 Digit)
Moving action : 2 wires, slidable & movable type.
4. Adequate no. of other electronic components.
5. Mains ON/OFF switch and jewel light.
6. The unit is operative on 230VAC $\pm 10\%$ at 50Hz .
7. Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
8. Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
9. Weight : 2 Kg. (Approx)
10. Dimension : W 415 x H 165 x D 315

List of Accessories:

1. Patch Cords 4 mm 50 cm red - - - - - 5nos
2. Patch Cords 4 mm 50 cm black - - - - 2nos

Other Apparatus Required:

1. Dual Trace CRO 20MHz

Note: Specifications are subject to change.