



OMEGA TYPE ICT-927 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

- 01 Displacement measurement using inductive pick-up system
- 02 Displacement measurement using capacitive pick-up system.

FEATURES

The instrumentation trainer consists of the following:

- 01 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.

- 02 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.
- 03 Transducer: Capacitive Transducer Type Slidable Pipe.

Range : ± 10 cm.(Accuracy ± 1 mm, ± 1 Digit)

Moving action : 2 wires, slidable & movable type.
- 04 Adequate no. of other electronic components.
- 05 Mains ON/OFF switch and jewel light.
- 06 The unit is operative on 230VAC $\pm 10\%$ at 50Hz .
- 07 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
- 08 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

- 09 Weight : 2 Kg. (Approx)
- 10 Dimension : W 415 x H 165 x D 315

LIST OF ACCESSORIES:

- 01 Patch Cords 4 mm 50 cm red ----- 5nos
- 02 Patch Cords 4 mm 50 cm black ---- 2nos

OTHER APPARATUS REQUIRED:

- 01 Dual Trace CRO 20MHz OMEGA TYPE CRO - 20

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS