



**OMEGA TYPE ICT-904** Optical and Temperature transducers play a very important role in today's industrial and domestic applications. OMEGA optical and Temperature Transducers Trainers are unique in design because each cover study of 4 different type transducers. Experiments covering fundamental characteristics of transducers & study of transducer controlled switching alarm systems can be performed with these trainers. These trainers comes with exhaustive manuals covering theory and experimental procedures for conducting experiments.

**OBJECTS:**

- 01 Characteristics of filament Lamp
- 02 Characteristics of Photovoltaic Cell
- 03 Characteristics of Photoconductive Cell
- 04 Characteristics of PIN Photo diode
- 05 Characteristics of Photo transistor
- 06 Light Controlled Switch System

**TECHNICAL SPECIFICATION:**

**01 Transducers : 4Nos.**

- 1.1 Photoconductive Cell
- 1.2 Photovoltaic Cell
- 1.3 Photo transistor
- 1.4 PIN Photo diode

**02 Light Source : Filament Lamp**

**03 Signal Conditioning Circuitry**

- 3.1 Power Amplifier
- 3.2 Current Amplifier
- 3.3 DC Amplifier
- 3.4 Cooperator

- 3.5 Electronic Switch
- 3.6 Buffer

**04 Input Circuits : Rotary & Slide Potentiometers**

**05 Output Circuits**

- 5.1 Moving Coil Meter
- 5.2 Relay
- 5.3 Buffer

**06 Interconnections : 4mm banana sockets**

**07 Mains Supply : 230V, ± 10% 50Hz.**

**08 Power Consumption : 2 VA (approx)**

- 09 Adequate no. of other electronic components.
- 10 Mains ON/OFF switch, Fuse and Jewel light.
- 11 The unit is operative on 230VAC ±10% at 50Hz.
- 12 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length ½ metre.
- 13 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms.
- 14 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

**15 Weight : 2.200 Kg. (Approx.)**

**16 Dimension : W 340 x H 125x D210**

**LIST OF ACCESSORIES:**

- 01 Line cord, Manual, Set of
- 02 Patch Cords ,
- 03 Multimeter 1 no.

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

**OMEGA ELECTRONICS**