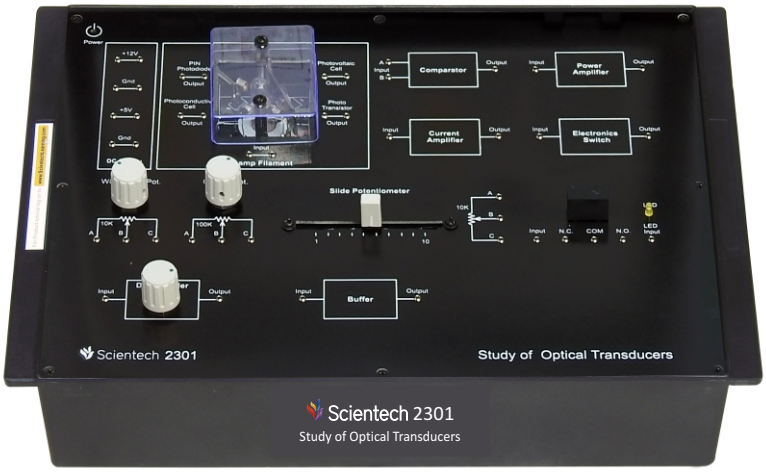
Study of Optical Transducers

Scientech 2301



Optical Transducers play a very important role in today's industrial and domestic applications. Scientech Optical Transducers trainer is unique in design because it covers study of 4 different Optical Transducers. Experiments covering fundamental characteristics of Transducers & study of Transducer controlled switching systems can be performed with this trainer. Scientech 2301 comes with exhaustive learning material covering theory and experimental procedures for conducting experiments.

Features

- Easy to operate
- 4 different Optical Transducers
- Study of Transducer controlled switching
- On board signal conditioning circuitry
- Built in DC Power Supply
- Functional blocks indicated on-board mimics
- Online on Product Tutorial

Scope of Learning

Characteristics of

- Filament Lamp
- Photovoltaic Cell
- Photoconductive Cell
- Phototransistor
- PIN Photodiode
- Light Controlled Switching System

Technical Specifications

Transducers	:	4 Nos.
• Photoconductive Cell		
• Photovoltaic Cell		
• Phototransistor		
• PIN Photodiode		
Light Source	:	Filament Lamp
Signal Conditioning Circuitry :		
• Power Amplifier		
• Current Amplifier		
• DC Amplifier		
• Comparator		
• Electronic Switch		
• Buffer		
Input Circuits	:	Rotary & Slide Potentiometers
Output Circuits	:	Relay, LED
Interconnections	:	2 mm banana sockets
Power Consumption	:	2 VA (approximately)
Dimensions (mm)	:	W 326 x D 252 x H 52
Power Supply	:	100V - 240V AC, 50/60Hz
Weight	:	1.5Kg (approximately)
Operating Conditions	:	0-40°C, 85% RH
Included Accessories	:	Mains cord:-1 no
		Patch cords 16" (2mm):-8nos.
		Patch cords 8" (2mm):-6nos.

Subject to Change

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