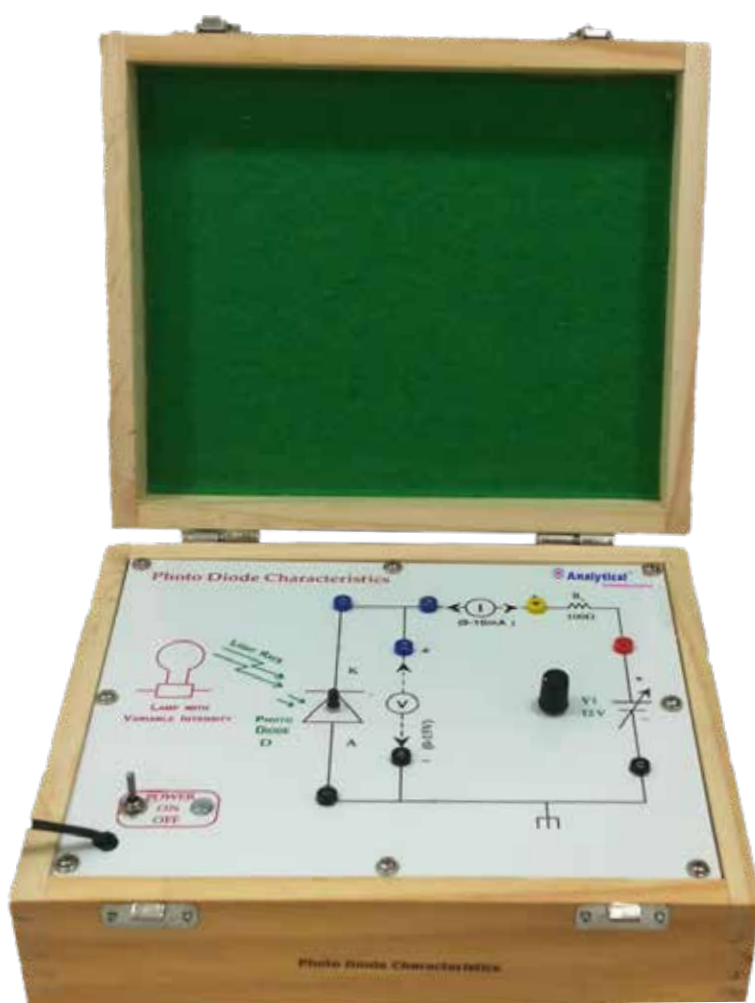


# PDC-3109

## Photo Diode Characteristics with Digital Meters



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

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- **Photo Diode Characteristics with Digital meters** is remarkable standalone trainer which is very useful to study characteristics of Photo Diode under different light conditions. The Photo Diodes are basic building element of an Optical remote control and an Optical receiver circuits. The trainer is simply designed to study the Photo Diode characteristics and devarious parameters in a simple experimental way. The trainer is equipped with on board Digital voltmeter & Digital Ammeter and variable light intensity source.

## ►► Features

- Plastic/ Metal Package Photo Diodes
- 5mm Diameter Photo Diodes
- Convex Front
- Fast response time
- High photo sensitivity
- Small junction capacitance
- Current controlling resistor in series
- Facility to vary wide range of applied reverse DC input voltage
- In-Built Variable regulated DC Power Supply
- Multi color Circuit Diagram is screen
- Enclosed in an attractive, light weight, High Quality, Poly Coated Australian Pine Wooden cabinet
- On Board 3<sup>1/2</sup> Digit Digital Voltmeter and Ammeter
- On Board 60W Lamp load with variable light intensity
- User friendly Designed
- Very Easy for Operation
- Interconnections by 2mm high quality banana sockets and pins
- Maximum Test points to explore all the corners of experiment

## ►► Technical Specifications

- **AC Mains Power Supply** : 230V  $\pm$ 10%, 50Hz
- **DC Power Supply** : IC Regulated Variable 0V to +12V/500mA, Fixed +5V/300mA
- **Diode Used** : Photo Diode
- **Pin Count** : Two
- **Diameter** : 5mm
- **Front** : Convex
- **Viewing angle** : 50°
- **Dark Current** : 50-50 $\mu$ A @

- **Maximum Forward Current** : 50mA
- **Maximum Operating Voltage** : 15V
- **Current Controlling Resistor** : MFR 100Ω, ±5% in series
- **Light Source** : 60W Lamp load max-Variable Intensity control
- **Digital Voltmeter** : 0-20V
- **Digital Ammeter** : 0-200mA
- **Meter Display** : Red Color, 3<sup>1/2</sup> Digit , LED Display
- **Weight** : 2.5 kg (approx)
- **Dimensions (mm)** : L 220 x W 270 x H 110
- **Interconnections** : 2mm Banana sockets
- **Operating Temperature** : 0-50°C, 80% RH

## ►► **Learning Scope**

- To Study the characteristics of Photo Diode w.r.t. applied light intensity.
- To Determine the Dark Current of Photo Diode.
- To Observe & Note the Change in Photo Current & Voltage across Photo Diode w.r.t. change in the intensity of light & applied Reverse Voltage.

- **Accessories Included :** Set of Patch Cord, Lamp Load 60W and Details Instruction Manual

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**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

**AMC's/CMC** :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

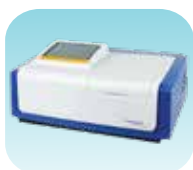
**Instruments** :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



## About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

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Laser Particle  
Size Analyzer



Ion Chromatograph



Water purification  
system



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Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## Reach us @



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