

Understanding Solar Tracking System

JMD 1960

JMD 1960 Understanding Solar Tracking System is a versatile training system for study and demonstration of Solar tracking.

Solar tracker is a device which tracks the motion of the Sun, thus ensuring that the maximum amount of Sunlight strikes the panels throughout the day.

Features

- Complete training system to study the fundamentals of Solar Tracking
- Microcontroller based Tracking System
- Single-axis and Dual-axis Tracking
- Manual, Time and Auto Modes of operation in Single axis Solar Tracking
- Manual mode of operation in Dual-axis Solar Tracking
- Master Reset Switch for recovery of System
- Emergency Motor Stop Switches
- Tilt Sensors for sensing angle of panel with respect to horizontal plane
- Facility for charging battery using Solar energy as well as DC supply

Technical Specification

- **Supply Voltage** : 12V DC
- **Solar Panel**
 - Maximum Output Power (Pm) : 18W
 - Open Circuit Voltage (Voc) : 21V DC
 - Short Circuit Current (Isc) : 1.07A
 - Max. Output Voltage (Vmp) : 17 V
 - Max. Current (Im) : 1.06A
- **DC Motor** : 12V
- **Rechargeable Battery** : 12V, 7Ah
- **Display** : 20 x 4 LCD
- **Light Sensor** : Phototransistor
- **Acceleration/Vibration/Tilt Sensor- 3 Axis** : +5V @ 1ma current
- **Fuse** : 1Amp (3 Nos.)
- **DC Adaptor** : 12V @ 1Amp
- **Dimension (mm)** : W 350 x D 280 x H 55



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