NAUGRA®

| Product name: | Product code: |
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| Solar Power Generation System (Trainer) | Digital00008 |




## Description

Solar Power Generation System (Trainer)

## Technical specification

- 1 Solarimeter with bar for shadow projection
- 1 Milliammeter with 2 ranges : 1mA f.s. (x1, x4)
- 1 Voltmeter with 2 ranges : 1 V f.s. (x1, x4) : 0.5 A f.s. (x1, x4)
- 1 Load Rheostat
- 2 Silicon Solar Cells of standard dimensions
- 1 Portable Compass
- 1 Solar Tracking System
- 1 Solar Panel made of Silicon Cells
- 1 Lead Accumulator
- 1 DC Motor
- 1 Solar Ruler
- 1 Adjustable Stand

Solar Power Generation System (Trainer)

NAUGRA®
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- Training Programs To Be Performed
- Study of radiation intensity with different inclinations of the solarimeter
- Calibrating the solarimeter with the solar radiation
- Plotting charts of daily diurnal insulation, for total, diffuse and direct radiation, on horizontal
- surface and on surface perpendicular to the sun rays
- Graphical and Statistical results interpretations
- Assessing the current output of a solar cell by changing its orientation to the light source
- Experimental assessment of voltage current curves of a silicon cell for different lighting values
- Assessing the maximum electric power output by a silicon cell for different lighting orinsulaution values
- Calculating the efficiency of a photovoltaic cell
- Parallel and series connection of solar cells
- Calculation of the average power supplied by a silicon cell panel
- Battery recharge
- Power Source : 220 ~ 230V AC, 50Hz, 1 Phase

## Solar Power Generation System Consist Of