

# Poly House Lightning Control System



Solar Radiation Sensor



Portable Data Logger

## INTRODUCTION

Portable Data Logger feature latest technology support and helps in logging physical parameter of multiple locations and save it into SD card. It can handle inputs of up to 8 channel(4 channel for analog/Digital sensors each) made available to log data from interval of 600 sample/sec to 1 sample/week.

This data logger come with menu based options which can be used to select which channel and which sample rate is used for logging.

## SPECIFICATIONS

- **Design:** Microcontroller based (ARM) with 8 channel available for sensors (4 channel for analog/Digital each).
- **Display:** 20\*4 LCD Display/ Touch Panel .
- **No. of Channel:** 8 (4 for analog input/4 for digital input).
- **Memory:** SD Card (For Available in selected module only).
- **Protocol:** FAT32.
- **Options:** High rate/Low rate/Trigger mode/Channel Selection/buzzer Alarm.
- **Log Interval:** 600 samples/sec to 1sample/week.
- **Timing:** Build In Real Time Clock.
- **Supply:** AC operated/Battery Operated/DC Operated.
- **Data Storage:** In a Ms Excel Sheet, Each records are stored with Time & Date stamp.
- **Relay Interface:** Can be used to interface a +12V DC component.
- **Data Logging:** Real Time with programmable log and storage time.
- **Settings:** Using a Hex keyboard to set the various parameters, to configure the channel and to manually set rate for the sample and hold the channel number.
- It has set point facility all the channel



All the Technology You Need

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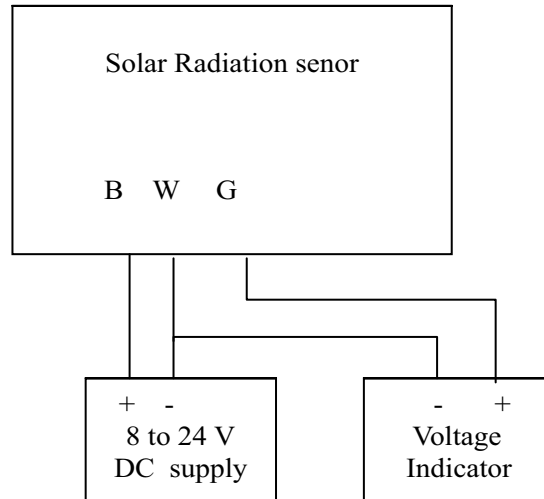
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Note : Supply voltage 8 to 24 V DC

## Technical Specifications

Operating Temperature	: -40° to +65° C
Storage Temperature	: -45° to +70°C
Transducer	: Silicon photodiode
Spectral Response	: 400 to 1100 nanometers
Cosine Response	
Percent of Reading	: ±3% (0° to ±70° ), ±10% (±70° to ±85° )
Percent of Full Scale	: ±2% (0° to ±90°)
Temperature Coefficient	: + 0.12% per °C
Reference temperature	: 25°C
Housing Material	: UV-resistant PVC plastic
Weight	: 250 g
Range	: 0 to 1800 W/m <sup>2</sup>
Accuracy	: ±5% of full scale
Drift	: up to ±2% per year
Output	: 0 to 5VDC (0- 1800 w/m <sup>2</sup> ) Green colour
Power supply	: 8 to 24 VDC Brown colour
Gnd	: white Colour

## OPTIONAL FEATURE SPECIFICATION.

- **GSM:-** Optional GSM Module With SMS Provision.
- **USB :-** For PC interface/data transfer to serial COM port.
- **MOD BUS:-** For PC interface.



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