Weather Monitoring Station for Solar Power Plants

Weather Monitoring Station for Solar Power Plants measures Solar Radiation, Ambient & Module temperatures, Humidity, Wind speed & direction, Rain fall and other parameters using suitable sensors and Data Logger.

Aeron’s WMS is available with choice of sensors from market-leading sensor manufacturers

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<tr>
<th>Solar Radiation and Irradiance</th>
<th>Air temperature and Humidity</th>
<th>Module temperature</th>
<th>Wind speed and Wind direction</th>
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<td>Kipp &amp; Zonen</td>
<td>R M Young</td>
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<td>Hukesflux</td>
<td>Decagon</td>
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“Weather Station helps monitor plant efficiency thereby ensuring maximum return on investment”
Data Logger plays an important role in accurate and reliable measurement of data from various sensors. And Aeron’s Data Logger is nothing less than best!

Technical Specifications of Data Logger:

- Analog inputs: 16 single-ended or 8 differential
- Analog inputs range: 0-20mA, 4-20mA, 0-1V, 0-5V
- A/D Bits: 24
- Pulse counters: 2
- Serial inputs: RS232 and RS485 MODBUS
- Serial output: RS485 MODBUS (for integration with SCADA)
- Wireless communication: Built-in GSM/GPRS Modem
- Memory: 2MB (internal flash), 2GB (external micro SD card)
- Display: Graphic LCD, 128 x 64 resolution
- Timer: RTC with backup battery
- Operating voltage: 9-30 VDC
- Internal power: Li-ion batteries (rechargeable)

Interfacing Inverter, Energy Meter, Combiner Box:

Aeron’s data logger works with all market-leading Inverter, Energy meter and combiner boxes which have RS485 MODBUS interface for communication. Data from these along with weather sensors is sent to Aeron Live Web Service for 24x7 view and download. With all its features, it is still an economical choice!