



On Grid Solar Monitoring

Digilog Micro Solutions (P) Ltd

Grid Tie Solar Monitoring

Grid Tie Solar Monitoring (GTSM) is a component of [Smart Grid Energy Manager](#), an intuitive, web-based software platform that provides detailed visibility into site energy production and consumption. Key performance metrics are displayed in an easy-to-read Digital Display for rapid insight into system activity.

Energy Measurement Hardware

Grid Tie Solar Monitoring (GTSM) Hardware is a state of art solution for the management of multiple and geographically distributed solar power plants. GTSM is an online monitoring system providing accountability on generation and consumption Energies. GTSM monitors the solar power plant by measuring the following parameters

- PV Voltage
- PV Current
- PV Instantaneous Power
- Energy Generated by the PV Module
- Grid Voltage
- Import / Export Current
- Import / Export Power & Power factors
- Import & Export Energies

Apart from the instantaneous data's, profile data's are stored in the device for analysis on half an hour interval on average voltages, average currents and Energy generated and consumed.



Value for every part of the Solar Energy Project Chain

GTSM brings value to each piece of the solar chain. The solution addresses the needs of the system owner, and integrator in one effective package.

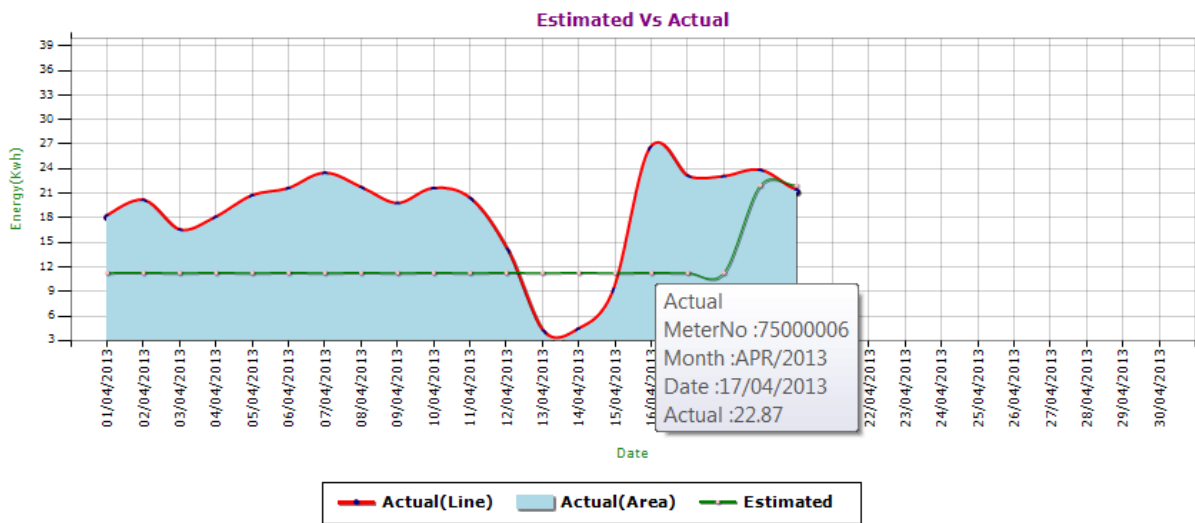
End User - The end user benefits by gaining the ability to track their systems performance use our web and kiosk views to enhance their supply usage.

Integrator - The integrator or contractor benefits by being able to keep track of all their valued customers in one place, quickly, and efficiently. Alarms and notices can alert the integrator to potential system problems and outages instantly, and troubleshooting features can save time for both contractor and customer. Public and web displays can be a powerful tool to generate interest from new clients and provide a showcase of past projects.

Manage Electricity Production and Consumption

GTSM has another innovative technology called **ePowerAudit** that measures how electricity is used throughout the day. Understanding energy usage patterns can help reduce energy costs by informing smarter choices on how and when to use electricity.

Estimated Vs Actual Consumption



On-The-Go Monitoring



Keep track of your home's energy information wherever you are, with GTSM for mobile devices. Share the performance of the system with friends to celebrate your low bills and clean energy production.

Technical Specifications

Panel Measurements – Input

- Operating Panel Voltage – 80V to 1000V DC
- DC Current Measurements – 1A to 100A

Utility Import & Export Measurements – Output

- Operating Voltage - 180V to 450V AC
- AC Current Measurements 200mA to 60A
- Operating Frequency – 47.5 to 52.5 Hz

Environmental

- Temperature Range (Indoor): -20 degrees C to +50 degrees C
- Temperature Range (Outdoor): -20 degrees C to +70 degrees C
- Relative Humidity Range: 0-95% Non-Condensing

Display Readouts

- Panel Voltage
- Panel Current
- R, Y & B Phase Voltages
- R, Y & B Phase Currents
- R, Y & B Phase Power
- Total Active Power (Import / Export)
- Grid Frequency
- Panel Generated KWh
- Total KWh (Import / Export)
- Real Time Clock
- Instant Power factor



Digilog Micro Devices (P) Ltd

(An ISO 9001-2008 Certified Company)

Corporate Office:
5/14 East Kamakodi Nagar,
Valasaravakkam,
Chennai - 600 087
India.

Telephone: +91-44-43863086

www.digilogmicro.com