Solar Data Systems

Solar solutions for monitoring, visualization, evaluation, troubleshooting & control

Solar Monitoring as a Service

Solar-Log™

Solar-Log® C&I
Commercial & Industrial Solutions

The Solar-Log® 2050 is a revenue-grade meter assembly for commercial- and industrial-scale solar plants. The assembly provides highly accurate solar plant production metering required by many PPAs, financing companies, and performance-based incentive programs (PBI/SREC).

When combined with a Solar-Log® data logger, the assembly offers performance data from inverter-direct monitoring and optional power control.

Solar-Log® 2050 Benefits & Values

- Easy to install, maintain, and operate at a cost-effective pricepoint for C&I projects

- Revenue-grade accuracy: ±0.2% accuracy with appropriate CTs (typical) for financial contracts (PPAs, etc.), incentive reporting, and Renewable Energy Credit (REC) monetization

- Inverter-direct monitoring compatible with over 130 manufacturers

- Add inverter-direct monitoring to collect inverter data including status and alarm codes, control inverter production, power factor, and grid export

- Supports single- and 3-phase services

- One Fleet | One Login: Solar-Log® WEB EnerestTM Fleet Management Tools (remote configuration, event log, portal customization, weather forecasting, asset list, value matrix, API & FTP Data Transfer, shared pinboards, fleet and task management)

- Solar-Log® WEB EnerestTM app available for iOS and Android

Solar-Log® 2050 Functionality

Incentive reporting (PBI/SREC) available through Solar-Log® 2050 with Solar-Log® data logger and Solar-Log® WEB Enerest™ XL subscription

- Revenue-grade metering for PV yield, building load, or sub-consumption
- Power Management/Feed-In Management: control or limit the PV yield to self-consumption (zero energy export to the grid); Fail-Safe Option available
- Supports Incentive Reporting in PBI/REC markets (GATS, PTS, CT Green Bank, NEPOOL GIS, WREGIS)
- Split-core mA and 5-Amp CTs available for easy installation (5-Amp version compatible with any standard 5A CT)
- Optional interface for SCADA integration including DNP3 and IEEE 2030.5 Protocols
- Digital communications via RS485 (MODBUS RTU)
- Export data over LAN or cellular connection (with Cellular Expansion Kit)

Cellular Expansion Kit

Available for AT&T and Verizon

Add the Cellular Expansion Kit to any Solar-Log® 2050 assembly for the highest quality monitoring with the convenience of cellular data transfer, perfect for when wired connection is unavailable or unreliable.

The kit includes an LTE cellular modem/router and power supply neatly mounted within an enclosure rated for outdoor use. A Solar-Log® Web Enerest™ XL subscription is required, and only Solar-Log® data transfer is supported.

Solar-Log® WEB Enerest™

Solar-Log® WEB Enerest™ provides a complete overview of individual plant information in real time, perfect for analyzing errors and performance. The data is processed and prepared for you in the portal, which enables faster and easier review and troubleshooting.

Share as many plants and fleets as you like with all your users. Integrate external service providers into your workflows with Solar-Log® WEB Enerest™, and decide who has access to which functions. Additional proactive services are available with PVSentry Solar Asset Manager.

Security
- Data encryption and redundancy

Monitoring
- Centralized fleet overview
- Error detection and component status
- Communication and event monitoring
- Real-time updates and mass archiving

Visualization
- Customizable views
- Compare and contrast across plants
- Daily, monthly and yearly views

Administration
- Flexible plant, fleet and user administration
- KPI and financial settings

Revenue-Grade Split-Core Current Transformers (CTs)

CTs ensure highly accurate solar production measurements and building consumption data, and eliminate the need to install a meter socket. This reduces installation costs and provides a simple solution for metering new plants or retrofitting old plants. CTs vary in size for C&I-scale projects, and three CTs are needed for three-phase systems.

"We found the Solar-Log® system to be an ideal fit based on their production reporting capability. In addition, the internet accessible real-time energy production dashboard is a great tool which the district can also use to educate the students."

- Leo McNeil, Trane Reg. Dir. of Comprehensive Solutions

Single & Three-Phase Production or Consumption Revenue-Grade Metering

- Control multiple inverters remotely
- PBI or SREC Reporting available
- Export data over LAN or with Cellular Expansion Kit
- Limit PV yield to self-consumption
- 5 Amp version compatible with any standard 5A CT
- Split-core mA and 5-Amp CTs available

Revenue-Grade Metering for PBI or SREC Reporting

Solar-Log® 2050 guarantees accurate and reliable readings for Performance-Based Incentive (PBI) programs that require ANSI-certified revenue-grade meter measurements. Contact us for help identifying PBI and SREC programs in your area.

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