



POWER & ENERGY PORTFOLIO

Product Overview



QE Series Energy Measuring Module for iQ PLC

With QE Energy Measuring module, power and energy becomes native to PLC backplane. Energy intelligence can be used for energy to process or production correlation and it can also assist in preventative maintenance of production equipment by continuous voltage and current monitoring.

- Real-time energy metering in the PLC rack
- Multiple circuits with one module
- Eliminate network cost and wiring

Compact DIN Rail EMU4 Series Power Meter

EMU4 Series power meters provide electrical metering for machine panels, power distribution panels, lighting panels, renewable energy, OEM applications, and facility or building automation loads. EMU4 with the data logging option can store several months of energy data.

- Native MODBUS® RTU and optional CC-Link® support
- Real-time power quality information up to 13th harmonics
- Pulse input option for KYZ signal from gas, water meters
- EMU4 Light: DIN rail EMU4 meter for single circuit metering
- EMU4 Plus: EMU4 DIN rail modular platform for multiple circuit metering (14 maximum single-phase circuits or 7 maximum three-phase circuits metering)

ME96SS Series Panel Mount Power Meter

ME96SS Series power meters are high accuracy meters with a large LCD display and native Modbus RTU or optional CC-Link communication that can be installed on power distribution panels, motor control centers, machine panels or other custom panels. ME96SS meters provide metering and power quality information that can be used for energy cost allocation, power demand management, or troubleshooting power quality problems.

- Easy on-board menu configuration with large LCD display that can be customized for metering data
- Configurable alarm notification and periodic energy counters for on-peak or off-peak energy usage
- Real-time power quality information up to 31st harmonics

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EcoWebServer III Energy Data Collection Web Server

EcoWebServer III is an industrial platform for collecting energy metering data as well as production data over Ethernet and CC-Link network. EcoWebServer III has built-in web server for displaying historical energy bar graphs, trends, real-time analysis from off-the-shelf product. EcoWebServer III can be a dedicated resource for energy visibility at the department, production line, or facility level. It can also act as energy data concentrator to serve data to PC based energy information software for KPIs/ Dashboards and reports.

- GUI configuration setup and web page visualization with energy aggregation hourly, daily, or monthly bar graphs with energy targeting tools
- Email notification of alarm events and scheduled CSV file transfer via FTP
- Easy configuration to Mitsubishi Electric's power meter hardware on the CC-Link network
- Support for non-electrical meters, i.e. water, gas, steam, compressed air, temperature, PSI and production
- Manage energy by user defined groups and energy-to-production correlation

EnergyPAQ Energy Monitoring Solution

EnergyPAQ is a packaged solution based on iQ PLC and GOT assembled in NEMA 1 enclosure. EnergyPAQ is a scalable solution that system integrators can utilize for energy dedicated solutions.

- Built-in HMI faceplates and support for QE Energy Modules for electrical sub metering
- Non-electrical energy points through digital or analog I/O option
- Demand responds or power factor correction capable
- Facility or plant floor energy kiosk

AX Energy Dashboard and Reporting Software

AX Energy software is for large end-users or enterprise level energy management package that gathers energy information from facility, production, or building automation infrastructure. AX Energy facilitates in targeting energy reduction/sustainability goals that can also entail carbon footprint reduction.

- SQL Server based software with dashboard, rich graphing, trending and reporting capabilities.
- AX Energy pulls energy and production data from PLCs, EcoWebServers, and meters through OPC, MX OPC, Modbus RTU/Modbus TCP, and BaCnet drivers are shipped with base package.
- AX Energy dashboards and reporting capabilities can assist in managing sustainability initiatives at the single large site or multiple facilities of large end users. AX Energy web browser clients can be used for employee awareness and can lead to earn the prestigious Energy Star and/or ISO 50001 certifications.
- Dashboards (Graphics/Trends) and reports are accessible through standard web browser or through a smart phone or tablets. Energy Star reports are part of base package.
- AX Energy can be a stand-alone software solution or it can be an add-on to existing MC Works64 installation base.
- Advanced custom reporting options are available as an add-on to the AX Energy base package.



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MITSUBISHI ELECTRIC AUTOMATION, INC.

500 Corporate Woods Parkway, Vernon Hills, IL 60061
Ph 847.478.2100 • Fx 847.478.2253

us.MitsubishiElectric.com/fa/en

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L-VH-05003
F72-155-SLSMKTG-004-C