

EMpro II Energy Meters: IIoT meets the factory floor

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Description

Second-generation EMpro energy meters make it easier than ever to measure and transmit key energy parameters to cloud-based services, enabling remote monitoring of equipment, machines, and facilities. Integrate into a wide range of power systems supporting single, two, and three phase installations of multiple configurations.

EMpro energy meters are offered as a panel-mount option, or in a DIN-rail mounted package with or without a display. Configuration is a simple 3-step process, and in terms of physical integration within a power system, the measuring of circuit currents can be achieved in two ways – by using traditional CTs or through the direct connection of Rogowski coils. Featuring industrial protocols such as EtherNet/IP, PROFINET, and Modbus TCP as well as Modbus RTU, integrating energy data into the industrial control system of your customer's choice is a streamlined process.



What makes these products unique?

The most unique feature of this energy meter family is its intuitive user experience. The commissioning process is aided by a three-step wizard that automatically runs upon first power-up, with the option to import and export configuration files between meters. The monitoring capabilities within the integrated web server make it easy to read and visualize data in real-time. Integrated logging and alarm capabilities are also easy to set up and use via the web server. Simply put, machine-level energy measurement has never been so easy.

Features and benefits

FEATURE	BENEFIT
Integrated Modbus TCP interface, optional Modbus RTU, PROFINET, or EtherNet/IP interfaces	Streamlined integration into all major industrial networks
3-step configuration wizard	No expertise required – up and running within minutes
Web server	Web-based management of all device parameters, with the ability to monitor in real-time with visualization
Integrated data-logging function	Easy visualization, logging, and export of logged values for trending and analysis
Alarming	Become quickly alerted of undesirable conditions with color-changing screen, capable of logging timing/duration of event to assist in troubleshooting
Ability to import and export configuration files	Fast configuration of additional devices
Device security	Prevent unauthorized access to display or Ethernet ports
Wide input ranges	One-meter family is suitable for deployment on a wide variety of systems
ANSI C12.20 certification	Satisfies the legal requirements for accuracy in sub-metering and billing applications
Direct Rogowski coil connection	Reduce wiring time and component count – no shorting blocks or transducers needed
Demand prediction	Avoid hefty utility surcharges due to excessive peak power demand
Future-oriented	Regular firmware updates will bring additional features soon, such as APIs for cloud integration and OPC UA functionality



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