Web Enabled IO Data Logger: WEM-IO

The WEM-IO is an IP enabled sophisticated module that can control loads and measure pulse inputs with data logging and real time reporting. It is also designed to enable remote load control.

The WEM-IO is a major step forward in IP enabled communications and reporting as it enables and simplifies remote load control, energy management and pulse data logging. It can operate in a stand alone manner and execute pre-defined functions or can connect via its web service client to be given further directives enabling it to be an ideal solution for demand response applications.

Features

Any Internet browser provides instant access to the advanced features of the WEM-IO through it's built in web server. The goal of this product is to enable remote load control and energy management. It has built-in logic modules to perform duty-cycling, threshold detection relay triggering, pulse input relay triggering, power loss relay triggering and also the ability to trigger the relays by accessing Energy Tracking's flagship meter, the WEM-MX or via a directive from a remote web server using web services enabling demand response.

The WEM-IO has been designed to work over any Internet / Ethernet connection.

- 2 Channels – dry-contact pulse inputs - Max 90 Hz
- 2 Relay outputs to control loads – on demand or via integrated logic
- 1 to 60 minute load profile interval logging and reporting
- 55 days storage capability in the event of network loss
- 100 BaseT Ethernet connectivity and reporting
- DHCP for plug-n-play or static IP address operation
- Web server for setup and testing with authentication
- User scheduled email, ftp or SOAP Web Service client reporting
- FTP client to update an FTP server with load profile data
- Web service client to update a web server with relay status and load profile data
- Secure data storage in non volatile memory
- Lithium Ion Battery backup during power failure – recharging circuit built in
- Open Protocols XML, HTTP, SMTP, SNTP, FTP, DHCP, DNS, SOAP
- Firmware upgradeable via FTP
- SNTP time server synchronization on boot up and periodic or can be disabled.
- Setup of parameters such as email, ftp or web services via internal web server
- Summation and Load Profile data viewable on web server
- ROHS Compliant for Europe
- International Time Zone support
- Time Stamps can be in USA or European format
- Compact size 3.0" X 3.25" X 1.25"
- Fast reporting of relay status and load profile data - every 1 minute if necessary