# Web Enabled Meter (WEM-MX)

**Energy Tracking** is a pioneer in applying the Internet to energy metering. Our WEM-MX IP-meter uses the latest advances in technology to deliver unrivaled benefits.

Besides tracking peak demand (kW) and energy consumption (kWh), this advanced meter integrates many important features and provides enhanced functionality.

Its open system design facilitates world-wide deployment to populate applications with real time data based on accurate measurements. This electric meter is designed to meet requirements for data on demand from multiple users. Traditional meters focus only on single user applications at fixed time intervals.

It is the right solution in today's complex energy markets combining low cost, high accuracy, minimum cost of communications with real time data access and reporting.
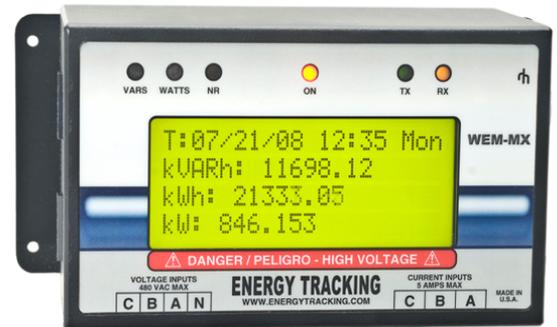
This sophisticated meter combines elements of simplicity, is highly functional and reduces overall ownership costs. Since most facilities already have an existing network, the cost of communication is virtually none.

## Applications

- Energy Management
- Sub Metering – **EPACT** 2005 Compliant
- Remote Meter Reading
- Billing & Energy Usage Analysis
- Real Time Measurement & Reporting
- Demand Response & Load Curtailment
- Backup Generator Monitoring
- Voltage Regulation Monitoring

## Accuracy

- ± 0.2% at unity power factor
- ± 0.5% at 0.5 power factor

## Features

- kW, kWh, kVARh, voltage, current, power factor, VA, frequency.
- kWh & kVARh (Delivered, Received, Sum, Net - Instantaneous).
- Load Profile: kWh & kVARh (delivered and received).
- Configurable load profile logging interval from 5 to 60 minutes.
- Internet connectivity via dynamic IP or static IP address.
- Email notification with cc: option, data transfer via ftp, web server.
- FTP client - send load profile, demand and consumption summary details.
- XML/SOAP Web Service client.
- SNTP for time synchronization.
- Log-in to web server is authenticated.
- Programmable demand (kW) threshold sends email when exceeded.
- Reporting of peak demand, consumption and previous month energy usage.
- Reports load profile via email /ftp.
- Reports include total kWh, last interval's kW, voltage, current, power factor values by phase and frequency.
- Mail and ftp reports can be setup to be sent every 5 minutes or daily.
- Open Protocols XML, HTTP, SMTP, SNTP, FTP, DHCP, DNS, SOAP.

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## Load Profile and Peak Demand

This advanced meter measures peak demand (kW) with a date and time stamp informing you when the peak occurred. It also records and stores interval data usage (load profile) on user defined intervals (5 to 60 minutes). This helps identify where, when and how much energy was used. It can also store energy consumption by time-of-use (TOU) allowing users to match energy use to utility tariffs and calculate mid-month bill estimates.

Using this smart meter to mimic utility demand meters, TOU meters or load profile meters enables sub-metering, energy management and other applications such as demand reduction.

## Versatile Communications

Open protocol communication features sending data over the local Ethernet/Internet using file transfer protocol (ftp), email or via an board web server.  Users can get data anywhere and anytime via email. Using existing, or local area network connections, avoids telephone modems and lowers communication costs.

## Customize applications to your needs

Energy Tracking's Internet enabled solid state ANSI C12.20 meter and its leading edge software applications can be simply configured to match your needs.

For pulse metering applications, the web enabled pulse logger will meet your needs to integrate gas, oil and steam usage and works with the Energy Tracking's software.
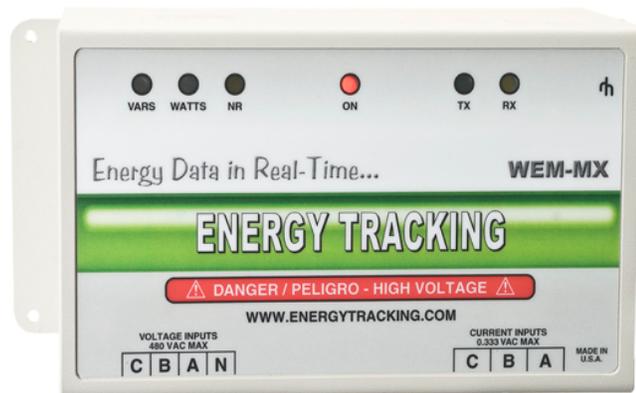
## Extended Features

- Li-ion battery backup.
- Power outage and restore notification via email.
- Integrate gas, oil, steam etc. monitoring with our web enabled pulse logger - WEPM.
- Generator Monitoring (optional).
- ROHS Compliant for Europe.

## Benefits

- Better management of energy usage.
- Get details about the amount and timing of your energy use, so you can adjust accordingly and save money.
- Improve operating strategies to control load and reduce waste.
- Understand and improve consumption patterns.
- Measure energy savings from energy efficiency modifications.
- Highlight anomalies in energy usage.
- Improve purchasing strategies.
- Compare costs between competing suppliers.
- Secure a better pricing from the retail energy markets.

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