



MIDAS METERING SERVICES LTD.

METERING INSTALLATION & DATA ACQUISITION SERVICES

ELECTRICAL METERING PANEL

Description: The Electrical Metering Panel (EMP) consists of an advanced multi-function electrical metering transducer complete with all of the associated terminal blocks and isolation switches, needed to interface with customer or utility owned instrument transformer circuits, enclosed within a small, easy to mount electrical enclosure.

Purpose: The EMP is designed specifically for electrical energy consumers who require independent, direct, on-going visibility of the electrical energy consumption at their utility interface metering points, internal facility metering points or both.

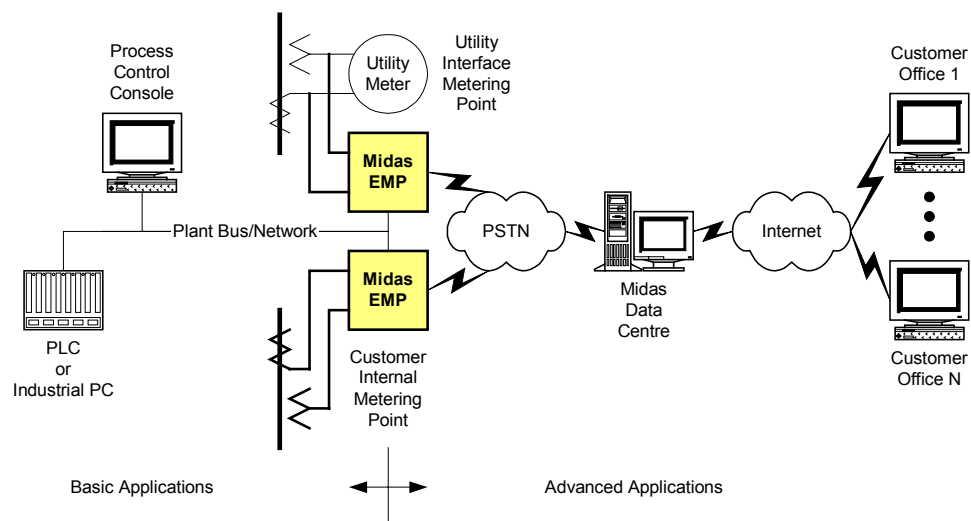
Basic

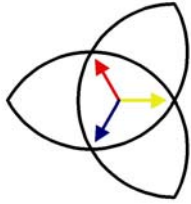
Applications: The EMP has the base, stand-alone capability to address a variety of basic customer applications including, but not limited to:

- utility interconnection check metering or inter-facility sub-metering
- direct multi-port, multi-protocol provision of real-time metering data to local control systems
- real-time metering data based control functions
- load shedding and/or generator startup control
- advanced power quality monitoring and recording
- customizable metering, recording and output configurations
- multiple meter energy pulse aggregation and recording
- transformer/line loss compensation algorithms
- energy pulse output signals to local control systems
- ...

Basic

Operation: The EMP interfaces directly with existing utility (or customer) metering instrument transformers and continuously measures the voltage and current while calculating, displaying and providing the real-time output of a myriad of electrical energy-related metrics via multiple communications ports and protocols.





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Advanced Applications:

While the EMP certainly stands on its own delivering real-time metering data directly to local operational control systems, its true value is realized when it is coupled with the MIDAS data management service and one or more of our information access services (such as ViewPower, RealPower, DeliveredPower, ...). This combination provides the consumer with a powerful set of energy management tools with which to manage the procurement of energy for and use by their facilities both in an administrative as well as an operational capacity. Some of these advanced applications include, but are not limited to:

ViewPower

ViewPower is a served Internet application that allows a user to view, manipulate and export electrical energy interval metering data for both real (physical) and virtual (aggregated) metering points from multiple geographically-dispersed facilities in a variety of tabular, graphical or report formats. Some typical applications are:

- load profile studies
- operational process change studies
- load control planning and review
- consumption planning and procurement strategy design
- demand-side management studies

RealPower

RealPower is a served Internet application that allows a user to gain ad-hoc, real-time access to the full metering capabilities of the EMP via a client-customized graphical interface. Some typical applications are:

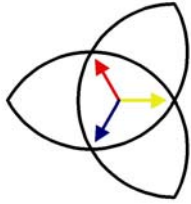
- real-time metering visibility from remote facilities
- remote load control complete with set-point and initiation management
- remote generator startup control set-point and initiation management
- power quality and analysis

DeliveredPower

DeliveredPower is an Internet data delivery service that provides our clients with the on-going daily, weekly or monthly delivery of their real (physical) and/or virtual (aggregated) metering point interval energy metering data via an FTP or EMAIL channel. Some typical applications are:

- energy management system data feed
- financial settlement system or process data feed

If you have an interest in, or questions about, utilizing some of the advanced capabilities of the EMP, please do not hesitate to contact us directly as we would enjoy the opportunity to discuss the possibilities and help you get the greatest value from this powerful, state-of-the-art electrical metering transducer package.



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Installation

Requirements: The following are the facility requirements necessary to install an EMP in your facility:

- secondary circuits of the instrument transformers (utility revenue metering or customer owned) to the EMP
- 120VAC power to the EMP (this may be provided by a potential instrument transformer depending upon it's available burden capacity)

Technical

Specifications: The EMP has the following general technical specifications:

- small easy to mount, lockable/sealable indoor/outdoor enclosure (14"W x 14"H x 8"D)
- 0.5% energy metering accuracy
- -40degC to 60 degC temperature range
- instrument transformer isolation/test switches
- power and potential circuit fusing
- full input and output terminations
- CSA certified

Pricing:

Please contact us directly for current pricing details for the EMP as well as other related data management and information access services.