



MIDAS METERING SERVICES LTD.

METERING INSTALLATION & DATA ACQUISITION SERVICES

REVENUE METERING UNITS

Description: A Revenue Metering Unit is a fully self-contained revenue-approved electrical metering system consisting of:

- a revenue approved and sealed electrical meter,
- remote communications equipment,
- environmental control equipment,
- power supply equipment,
- external wiring termination and fusing, and
- instrument transformer test and isolation switches

all housed in a suitable indoor or outdoor electrical enclosure.

Purpose: A base Revenue Metering Unit can be custom tailored to meet the specific needs of electrical energy producers or consumers who require:

- independently provided revenue approved metering of the electrical energy production and/or consumption at a financial settlement interface, and/or
- one or more of the advanced data access and/or control capabilities that are available using our state-of-the-art packages and related services.

Basic

Applications: The Revenue Metering Unit has the capability to address a variety of basic applications including, but not limited to:

- generation facility interface production and consumption revenue metering
- point of interconnection check metering
- direct transmission connect revenue metering
- inter-facility or inter-company revenue sub-metering
- revenue metering aggregation or dis-aggregation
- transformer or line loss revenue metering compensation
- ...

Basic

Operation: At a minimum, a Revenue Metering Unit continuously measures and records energy production and/or consumption at 15 minute intervals so that it can then be remotely collected, validated, processed and stored by internal or external data management systems or service providers (see our Revenue Metering Data Management Service brochure).

Basic Package

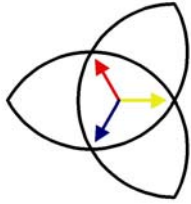
Pricing: Revenue Metering Unit pricing is dependent on the site and application specific nature of each application. Please contact us directly to discuss your specific application and configuration requirements.

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Technical

Specifications: All of the MIDAS Revenue Metering Units have the following general technical specifications:

- small, modular, easy to mount, lockable/sealable indoor/outdoor enclosure
- -40 degC to 60 degC temperature range
- instrument transformer isolation/test switches
- power and potential circuit fusing
- landline, analog/digital cellular or CDPD communications
- Entela certification (CSA equivalent)
- Measurement Canada compliant
- Transmission Administrator Measurement System Standard compliant

Advanced

Applications: In addition to being able to provide the client with basic revenue metering functionality, a Revenue Metering Unit can be configured with the power to deliver some very sophisticated on-site custom application capability including, but not limited to:

- direct multi-port/protocol real-time metering data (local plant DCS/PLC, central corporate SCADA, Alberta System Coordinator,...)
- stand-alone real-time metering based control functions (load shedding, control initiation, ...)
- advanced power quality monitoring and recording (voltage compliance, harmonics,...)
- custom metering, recording and output configurations (fuel consumption, alarm outputs,...)
- multiple meter energy pulse aggregation and recording (real-time aggregation,...)
- custom compensation algorithms (transformer/line loss, process efficiency,...)
- output signals to local control systems (PLC pulse totalizers, analog process controls,...)

Related

Products:

Revenue Metering Data Management Services

Data management services necessary to collect, validate, process, store and transfer the revenue metering data to both internal and/or external agents for financial settlement and/or analysis purposes.

ViewPower Plus Internet Application Service

Access to their historical (next day) energy, demand and pricing data through our ViewPower Internet information access service.

RealPower Internet Application Service

Ad-hoc, real-time access to the full metering capabilities of any Power Measurement Ltd. meter-based Revenue Metering Units through the MIDAS RealPower Internet information access service.

DeliveredPower Internet Data Delivery Service

An on-going daily, weekly or monthly delivery of real and/or virtual metering point interval energy data via an Internet FTP or EMAIL channel.

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