

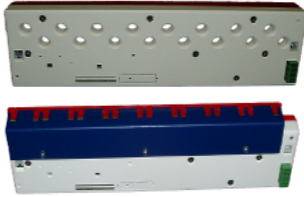
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MP-636



Electric Energy
Microprocessor Based Meter



DATA DISPLAY UNIT

Intellimeter Canada Inc MP-636 is a MCMS (multi-customer metering system) electronic meter that can be installed directly inside electric panel. It is a revenue class meter. Data logger is mounted on the device. Energy consumption could be acquired remotely.

Description

MP-636 multi-customer energy sub-meter offers an efficient system for commercial, industrial, and condominiums.

Intellimeter's family of Telemetry and AMR systems will reduce the need for meter readers and enhance the efficiency of Energy Management Systems.

Optional Data Display is a device that allows viewing of utility history accumulated within data logger.

Theory

The meter uses MICROCHIP high-performance, 16-bit PIC24HJ micro-controllers. It has 16 current inputs, 3 voltage inputs, and up to a total of 16 separate meters, each with its own isolated pulse output. It is a complete multi-station metering product that can be programmed for single phase or polyphase applications.

Each of the 16 input currents can be mapped to any of the three voltage

inputs, and each current-voltage pair can be mapped to a specified meter. Thus, the MP-636 meter can be configured as 5 three-phase meters, 8 two-phase meters, or 16 one-phase meters.

In addition, the MP-636 is powered from its own voltage inputs, and can support up to two 8-channel data loggers (Intellimeter PT2000, approval number AE-1158).

Application

The MP-636 Series Solid-State Electricity kWh meter is a high accuracy, low cost, multi-channel electronic kilo-watt-hour meter designed for wide variety of applications. In MCMS applications, property managers can use the latest data for cost allocations and demand side management.

The device could be programmed to 5 different types of modules. They are-

- Single phase Two wire: metering capability of up to 16 meters
- Single phase Three wire: metering capability of up to 8 meters
- Two phase Three wire (On board CT): metering capability of up to 8 meters
- Two phase Three wire (Remote CT): same as c above
- Three phase Four wire: metering capability of up to 5 meters

The meter provides cumulative (kWh) for each load. It also provides interval energy data logging. All Current Sensors (CTs) are self-protecting in the event of an open circuit under load.

Features

- Multi-customer metering
- Software configuration
- Communication Interface
- Monitors kWh
- Monitors single phase and polyphase loads from 93 to 347 vac.

- Slim design (16"x4"x3")
- Data stored in NV ram
- Demand interval adjustable
- Optional Remote Data Display
- Software – Proprietary with built-in security

Service Types

- Single Phase Two Wire/ Single Phase Three Wire
- Two Phase Three Wire
- Three Phase Four Wire

Voltage Range

93-347 VAC

Current Range

2 to 200 A

Communication

- RS-232
- RS-485
- TCP/IP
- RF 802.11/802.15
- BPL

Accuracy

< 0.3% ANSI C.12

Approvals

- Measurement Canada (AE-1589)
- CSA US (2099059 (LR 81050))
- UL (Applied for)

Sealing and Security

- Meter has a unique serial number.
- Electronic and Mechanical sealing

Models

- MP-636 EXTC (Uses external CT)
- MP-636 INC (On board CT)

Summary

Metering modules have options of several transmission media and communication protocols to operate within a building. All units can be individually mapped and supervised for tolerance from global perspective.