Energy Controls

Product Specification & Data Sheet

DemandMiser – Demand Controller DM-ESS-XXX

Features

- **Controls Demand Peaks**
- Controls Electric Generators
- **AI Based Automatic Load Limit Adjustment**
- Interfaces with EMS and 3rd Party Systems
- **Sophisticated Load Shedding Algorithm**
- Internet Communication
- Monitor Energy Usage on Electrical Loads (Optional Upgrade)

THEORY AND APPLICATION

The **DemandMiser** helps customers to reduce demand peaks. Companies usually pay "Maximum Demand Charges" and these are based on the highest recorded demand peak in the month. These demand peaks occur when several electrical loads come on at the same time. By temporarily reducing or cycling the loads during periods of high demand, the "Maximum Demand Charge" can be reduced.

Why Is DemandMiser Unique?

The **DemandMiser** uses an AI sophisticated load shedding algorithm that provides automatic load limit adjustment. The system has programmable outputs for cycling loads on a priority basis. This ensures that the equipment being shed is not continually shed at the same time, so daily operation is not affected. In addition, the **DemandMiser** automatically resets itself so it is synchronized with the utility meter for bill verification purposes.

How Does It Work?

DemandMiser can receive the kW/KVA values from 2 different kinds of inputs:

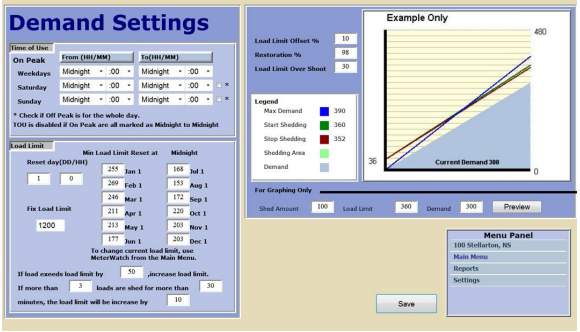
- Pulse Input (utility meter)
- Analog/Digital Input
    a) Meter
    b) Current Transducers

The DemandMiser then sheds loads via a dry contact interface.

The **DemandMiser** is installed in the electrical room and is connected to sheddable loads like:

- HVAC
- Medium Temperature Compressors
- Low Temperature Compressors
- Electric Heaters
- Lighting (if VoltMiser is available)

DASHBOARD SETTING



SAVINGS CALCULATOR

Old Demand	400 kW
New Demand	340 kW
Demand Reduction	**60 kW**
Real Demand Cost	**$ 20**
Total Savings per Month	**$ 1,200**
Yearly Savings	**$ 14,400***

*Savings will vary depending on demand cost and demand load.

SPECIFICATIONS

PLATFORM – Programmable Logic Controllers (PLC)

COMMUNICATION

Type Ethernet, LAN, Web Browser
Rate: 10Mbps/100Mbps (SERVER REQUIRED)

MAIN METER INPUT TYPE

- Analog Input or Pulse Input
- Dry Contact Interface
- # of Loads: 8 (outputs)

MODES OF OPERATION

Automatically Performed:
- Demand Control

User Interface Capabilities:
- Change Demand Settings
- View Demand Settings
- View Overall Energy Usage

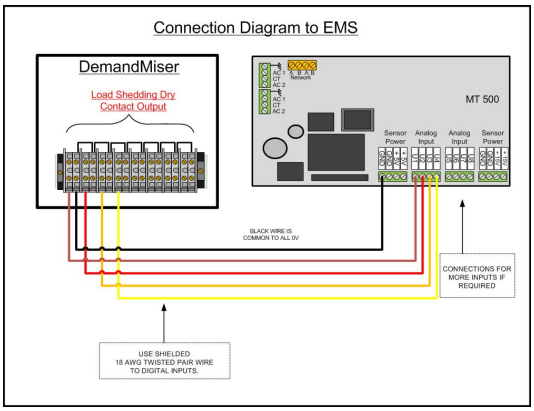
OPTIONAL UPGRADE

ESS – Energy Surveillance System
This system allows the user to monitor energy usage on important sub-loads for energy usage reporting and store benchmarking. In addition, the ESS can be used to prove savings from commissioned stores and to test new energy saving initiatives.

DIMENSIONS - D-8" X W-20" X H-20"

ENCLOSURE - Material Steel – NEMA 12

INSTALLATION EXAMPLE



Contact Information

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Product Line
Energy Surveillance System - ESS
DemandMiser - Demand Controller
Power Factor Controller
EG Brite Fluorescent Fixture
VoltMiser Lighting Controller