

Pick Your Powersm Virtual Maintenance MonitorTM



The VMM Software allows a single user to monitor and control multiple distributed generation (DG) sites from a single location.

Highlights

- Intuitive graphical user interface
- Comprehensive Generator Power Control configuration tools
- Remote access using dial-up or LAN
- Six user-definable security levels
- Engine/generator load test capability
- Manual engine start/stop and load/unload functions
- “Drill-down” capability providing detailed information including:
 - energy demand metering
 - engine parameters¹
 - generator parameters
 - voltage and current harmonics
 - system status
- Alarm notification and Event Logging¹
- Data logging and trending¹

Benefits

- Monitor and control gensets from a central location
- Diagnose potential problems remotely before dispatching service personnel
- Monitor voltage and current harmonics for power quality
- Monitor fuel levels, oil pressure, air temp, etc. right from a local or remote PC¹
- Automatic alarming tracks critical energy parameters and sends alerts via pager and/or email¹
- Alarming and paging features are user-definable¹

Overview

The Virtual Maintenance Monitor (VMM) provides the user with site-specific generator metering, monitoring and control. The VMM provides detailed information, including energy demand metering, harmonics, alarm logging¹, and engine and generator information for onsite personnel. The VMM also allows for communication via modem or LAN to dispatch, control and monitor remote generation sites.

Virtual Maintenance Monitor™



Software Features

- Windows 98/NT/2000 PRO compatible
- Easy-to-use interface
- Customizable to meet specific user requirements
- User-definable security levels
- Dial-up via modem or connect directly through a LAN
- Each site can have its own distinct site overview screen uploaded directly from the generator location.¹

Encorp Intelligence - VMM Option Packages with Enhanced Features

- Custom Screen Option - Displays all vital components and configuration settings
- Data Logging And Trending Option - allow users to track and analyze virtually any parameter
- Alarming Option - alerts service via pager and/or email if problems arise (includes time/date stamp, alarm type, site location and specific generator information).
- Engine Monitoring Option
 - Tracks critical engine parameters such as coolant temp, oil pressure and fuel level
 - Integrates seamlessly into other GPC embedded control objects

Local Solution: Encorp Intelligence CPM with VMM server

The Communication Processor Module (CPM) is used to access information from the Automatic Paralleling Switch and Utility Interconnect Switch control systems. With the optional Alarming Option,

the CPM will notify dispatch maintenance personnel (E-mail or pager) of an event at the generator site. A monthly pager service is required for the pager function, or a TCP/IP connection to the facility network is required for the E-mail feature. An alarm may be initiated by abnormal engine and generator levels or by normally scheduled events as specified by the manufacturer for automated preventative maintenance programs.

Remote Solution: Encorp Intelligence VMM client software

The VMM Software allows a single user to monitor and control multiple generation sites from a single remote location. Using an analog phone line or Ethernet connection, the VMM connects to allow remote users to see everything available to local users. Any engine or generator parameters (volts, current, power factor, kW, kWh, VARS, harmonics, etc.) being sensed in the Automatic Paralleling Switch may be viewed and controlled by the VMM.



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