

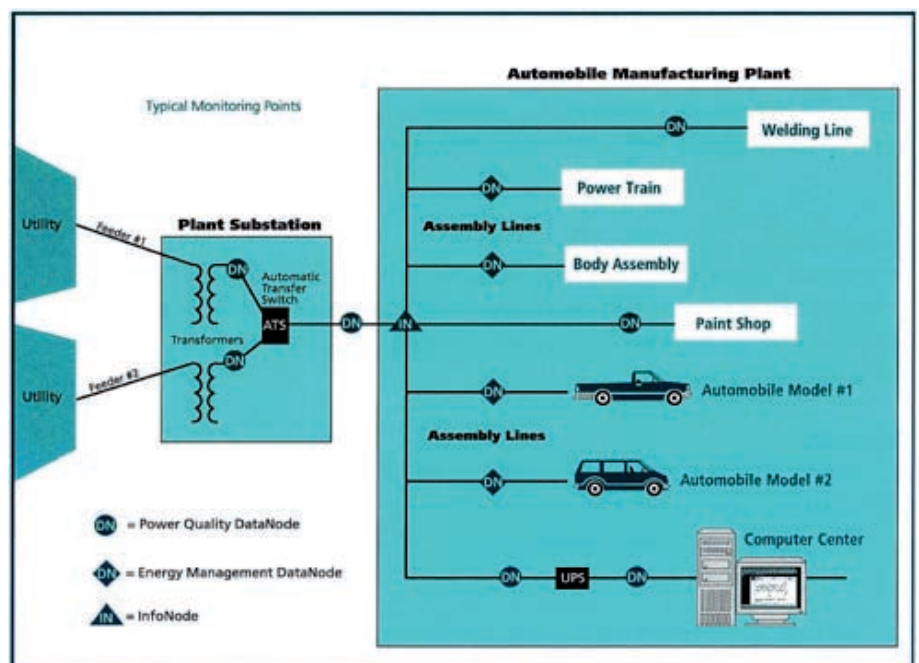
Benefits of Continuous Power Monitoring Using the MAVOSYS System

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Power quality problems cost business billions of euros annually in lost revenue, process interruptions, and scrapped product. Although some power problems can be traced to the utility, most problems are produced inside the business facility, with some triggered by building -related problems such as overloaded circuits and ground loops. Many more problems, however, are caused by routine business activities such as starting up equipment, installing new computers, or changing production practices. Even the tiniest power quality disturbance can have disastrous effects on data, equipment and productivity.

Power quality monitoring has traditionally been used for reacting to problems, by characterizing them to identify possible solutions. While that methodology will always be useful, continuous and permanent power monitoring has emerged as an integral part of overall system performance assessment. The greatest benefit of continuous power monitoring is that it puts users in a proactive position by increasing their knowledge and giving them the tools to increase system reliability.

The most advanced of a new generation of power monitoring systems, the MAVOSYS System is capable of capturing data routinely overlooked by other systems. The MAVOSYS System is a multi-function resource, not only for power quality monitoring, but also for maintenance and repair, quality assurance, cost control and enterprise-wide power management.



A typical MAVOSYS System installation includes a central Infonode® or Encore® Series Software and multiple DatNodes® located at key monitoring points throughout the facility. The scalable MAVOSYS System can easily accommodate production increases, changes in equipment, and facility expansions.

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A New Standard in Monitoring

The scalable architecture of the MAVOSYS System lets each business monitor critical points throughout the facility or enterprise, continually collecting data and translating it into practical, useful information. That information includes targeted answers to the most demanding challenges facing power managers and delivers tangible benefits for power system management. Among those benefits:

Proactive management of power resources

The continuous capture of all events enables users to develop trend lines and algorithms to maintain real-time illustrations of infrastructure performance and improve reliability, while automated alerting sends alarms to power managers before problems occur.

Preventative and predictive maintenance

Identifying pattern changes enables better planning of maintenance activities and avoid interruptions of critical business practices, while system data allows “just-in-time” maintenance procedures to be developed and implemented.

Reliability-based monitoring approach

The value and longevity of power conditioning and mitigation equipment can be optimized by a reliability-based monitoring approach using the MAVOSYS System.

Early detection of problems

Problems can be detected before they cause damage through benchmarking that sends alerts when conditions begin to deteriorate. For contract negotiation, monitoring data documents power quality, demand, and usage patterns.

Energy expenditure reductions

A load profile can be generated to track daily, weekly, and seasonal variations in energy consumption, while critical loads can be metered and sub-metered to evaluate consumption. Data generated by the MAVOSYS System provides the basis for implementing an ongoing energy cost reduction program, which can result in savings up to 30% from prior period billing.

Capital investment planning

Trends established by real-time data assist in the planning and implementation of capital investments for building and equipment upgrades. After implementation of the investment, the MAVOSYS System’s monitoring capabilities ensure that new systems operate as designed.

Quality Control

As a key contributor to increasingly sensitive manufacturing processes, power quality must be confirmed for a number of regulatory agencies, internal quality control programs, industry-specific quality requirements and international standards organizations.

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