Remotely Track In-Plant Power Use in Real Time

Sensor Synergy’s Watts Aware is an affordable, easy-to-deploy, new way to remotely monitor and analyze electrical power usage within an industrial or commercial facility. Inefficient plant operational practices can be quickly identified and corrected, resulting in tens of thousands of dollars of utility cost savings.

This is achieved by measuring and sharing real-time power consumption information for large motor-driven machines, manufacturing work-cells, HVAC, lighting or groups of electricity consuming equipment. Usage patterns for the largest electricity consumers are quickly identified. Malfunctioning machines or systems not shut down at the end of a shift become apparent with Watts Aware Dashboard software.

Unlike more costly power monitoring systems, Watts Aware can usually be installed within an hour, without interrupting the operational status of the equipment to be monitored, thus avoiding costly shutdowns.

Watts Aware is the latest remote monitoring solution from Sensor Synergy, Inc., a well-established manufacturer of stand-alone, "Network Enabled Equipment Monitor" products. Their patented "smart-interface" technology makes it possible to quickly connect multiple sensors and clearly display results remotely on a web-based graphical user interface.

The Watts Aware WA-118 is a complete package that can be installed by plant personnel within an hour. After installation, the Watts Aware Dashboard software is immediately ready to display and track power usage in graphs and tables. The WA-118 system includes three 200A capacity current sensors and three 500A current sensors, a pre-configured netbook computer, the Watts Aware Data Acquisition Unit, a wireless router, all software and all cables required to make the system operational out-of-the-box.

The rate of electrical power usage is measured and displayed in real-time, with less than a two-second delay between electricity consumption changes and computer display. The wireless feature enables facility managers to view power consumption changes instantly, on the netbook's display, at their desk or anywhere. The data can also be reviewed at a later time, or loaded into any popular spreadsheet program and displayed on any PC.

This unit is well suited for extended-duration monitoring, in which the power routed through a power distribution panels is continuously measured and recorded. Power usage can be tracked for weeks or months without endangering workers with exposed voltage probes, delicate alligator clip measurement leads, or costly conduit installations. And no disruptive power outages are needed during installation.

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