



Large automotive manufacturer dramatically improves predictive maintenance by switching to Omron power supply

An automotive plant in the Midwest that manufactures SUVs was experiencing unexpected power supply failures in the plastic forming department. This issue was in turn causing unplanned equipment downtime that significantly impacted the production of vehicles being assembled at the plant.

The automotive plant learned about Omron's strong predictive maintenance offering through the Omron Strategic Account Team. Not wanting to take the chance of having the line shut down again due to a power supply failure, the

plant did a thorough analysis of all options and selected Omron based on the quality of its S8VS-A Series switch mode power supply (an older technology now replaced by the S8VK-X).

The plant's team also placed great value on the option to see how the power supply is functioning from a remote location and to make changes remotely without needing to open up the panel. Both of these capabilities are offered by Omron's predictive maintenance solutions and are known to be a great time-saver from a productivity standpoint.

Business need

An automotive customer was experiencing unexpected power supply failures in its plastic forming department, which in turn caused equipment downtime that significantly impacted vehicle production.

Unique solution

The customer replaced its power supply with the Omron S8VK-X, which provides 24/7 remote monitoring of power supply health via EtherNet/IP to help identify abnormal DC circuit issues.

Customer benefits

The problems with unplanned equipment stoppages have been resolved, and the customer now has peace of mind thanks to remote power supply monitoring and the ability to respond to issues more quickly.

The solution

Predictive maintenance with the S8VK-X



The need

The plant had previously been using a power supply from an Omron competitor to power critical components in its plastic forming equipment. Since the competitor's power supply lacked remote monitoring capabilities, the customer was unable to identify abnormal issues in a timely manner and troubleshoot accordingly. After realizing that Omron offered remote monitoring, the customer sought approval to change the plant spec over to an Omron power supply.

With the help of a local system integrator, the customer retrofitted and updated its current panels to implement the Omron S8VK-X Series switch mode power supply. The process took about ten minutes per unit.



The technology

The new solution is designed to let the customer to monitor real-time power supply status in order to prevent unexpected failures. Omron's S8VK-X is an advanced DIN rail-mountable device that provides 24/7 remote monitoring of power supply health via EtherNet/IP, including important data like voltage, current and peak current to help identify abnormal DC circuit issues.

The S8VK-X also comes with a power supply life monitoring software that can remotely monitor the conditions of multiple power supplies. This advanced solution dramatically improves predictive maintenance on industrial equipment and helps customers respond more quickly to critical electrical issues on their equipment.



The outcome

By replacing the competitor's power supply spec with the Omron S8VK-X in the plastic forming equipment, the automotive plant was able to resolve the previous issues with unplanned equipment stoppages. The new solution gave the customer peace of mind thanks to the ability to understand how the unit is performing and get ahead of any issues before they result in costly downtime.

The customer is also seeing a significant time-saving benefit of the new system. Power supplies are typically overlooked until they fail, so it's important to have predictive maintenance capabilities on a product that normally doesn't have this functionality. The customer is very happy with Omron's high level of product dependability since downtime is an unaffordable expense.

