



Power Server Helps St. John's Hospital Breathe Easier

It is one of the most important industries in the world – health care – and one that is continually in need of the latest and greatest technologies. We asked one hospital: How do you ensure your patients are safe? And how can we make them even safer?

At St. John's Hospital in Springfield, MO, 20 Square D[®] Econo-Flex[®] Altivar 58 drives are located in the Penthouse of the hospital's West Pavilion. The Econo-Flex[®] drives can communicate to different systems at the same time. (This is a feature very unique to our drive design compared to the design of our competition.) These 20 drives are evenly distributed among five air handling units, which supply "treated" air to the hospital complex. The drives are located in a remote area, which was creating problems for the electrical department staff. Members of the electrical department, who could be anywhere on the large campus when problems occurred, needed to be easily notified when problems occurred with the drives and able to troubleshoot remotely. The Johnson Controls Building Automation System needed to be able to control the drives as well.



After listening to the unique needs of the client, Square D/Schneider Electric responded by recommending a three-part solution that would empower the electrical department and Johnson Controls staff to respond to any problem with the drives from anywhere on the hospital campus.

First, by placing an "N2" card into the drive, the Johnson Controls system was now able to be used to control the Square D[®] Econo-Flex[®] Altivar 58 drives. The HVAC department has ownership of the performance of the drives; the electrical department assists in the maintenance and programming of the drives. To be effective, the electrical department would need to be notified of any problems with the drives and be able to view the drives from any PC on the large campus complex.

This was the driving force for the second system, the POWERLOGIC Power Server 750. The Power Server can be used to inexpensively web-enable almost any MODBUS compatible communicating product having registers that can be identified. Devices connected to the Power Server can be remotely monitored via a Web browser. At the hospital, the Power Server was used to very easily web-enable the drives and inform





staff members on any alarms via their pagers. The system designed for the hospital connects the Power Server to the keypad port of the drives for Modbus RTU communications.

In addition to viewing the drives from any PC, hospital staff members also wanted to be able to view the drives in the Penthouse where the drives are located. However, there is no PC in the Penthouse. A Power Server Display Touchscreen Panel was supplied so that staff members could look at any drive information desired exactly as if he or she were using a PC. The panel was built with the Power Server inside and the display flush mounted.

With the Power Server's ability to serve a MODBUS compatible device information over the Intranet via a Web browser, the hospital's electrical staff now knows any problems that occur before calls are made and can "view" problems from any PC on campus that is connected to the network. This empowers the hospital staff to keep patients safe and comfortable by ensuring the air is properly treated.