



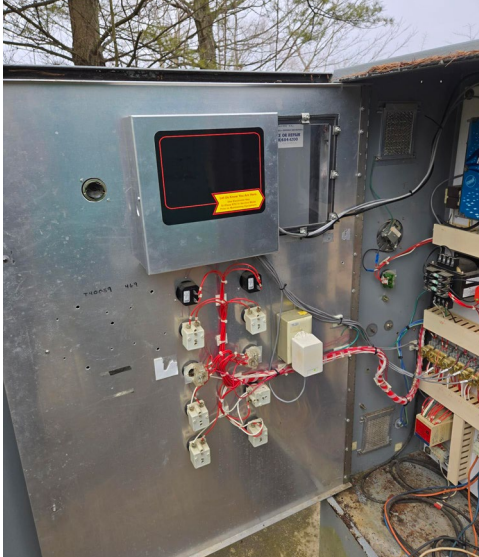
Municipal Pump Monitoring & Control Application

LEC Technologies and Horner Automation's X4R



Municipal & Industrial Water Management Projects

LEC Technologies, South Haven, Michigan



Before and after images of the lift station panel. Below showing the Horner X4R in the iQ2 Platform



HISTORY / CHALLENGE

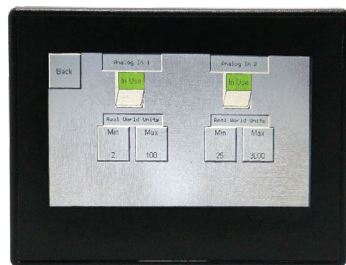
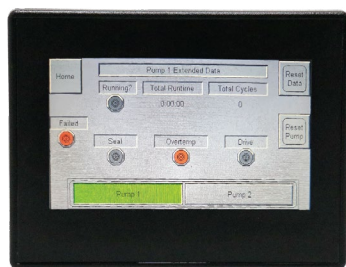
LEC Technologies is a technology OEM providing real-time remote monitoring and control solutions by leveraging its secure, private communications network, its iQ2 Data Platform, and off-the-shelf hardware from the industry's best hardware OEM's. LEC Technologies was looking to expand the capabilities of its plug-and-play solution for municipal pump monitoring and control for lift stations, elevated tanks, and other pump-related automation. These remote field-based functions are critical to the public supply of safe drinking water, removal and treatment of waste, and many other critical functions of municipal and industrial water and wastewater management. Horner provided a quality product with the form factor, programming capabilities, and US-based production and support LEC Technologies was looking for.

SOLUTION

LEC Technologies was looking to meet the market demand of expanded I/O needs while providing cost effective and reliable automation at the edge. The Horner HE-X4R PLC's small form factor provided an easy drop-in replacement solution with little to no complications to panel design. The HE-X4R's integrated HMI with a PLC meant less space requirements in the existing panel, while meeting the needs of expanded I/O.

In addition, the HE-X4R PLC has an outstanding variety of I/O to allow for monitoring of all the needed lift station assets, as well as provide the ability to control those easily from the local HMI screen. Programming of the HE-X4R PLC, using Horner's free Cscape software, allowed for quick and easy integration with existing field assets as well as with the iQ2 Platform.





Program screenshots in the X4R



LEC Technologies and the Horner HE-X4R replaced the dated, legacy system with LEC Technologies iQ2 Platform that offered South Haven, Michigan a significant upgrade. iQ2 offered them real-time remote monitoring and control, connectivity using FirstNet®, Built with AT&T, data sharing with GIS and SCADA Systems, and a non-proprietary hardware approach, leveraging off-the-shelf components such as the Horner HMI and Sierra Wireless LX40, for long-term cost control and flexibility. The Horner HMI offered South Haven, and future LEC Tech customers, local control and the automation they desired at the edge, with a cost-effective, quality, U.S.-based manufacturer.

The upgrade utilizing LEC Technologies and all the benefits of iQ2, including all hardware, was under the budget required for the hardware updating of the existing system. The customer's biggest concerns were uptime, access to real-time data, security of that data, and ability for data sharing with other systems...those needs being met superseded savings. However, savings will be highly recognized in TCO (Total Cost of Ownership) over the next decade.

Keen to LEC Technologies vendor and product selection is the reliability, security, and overall performance of the product as well as the historic performance of the company. Not only did the Horner product tightly fit the technical requirements, but the company and its leadership were US-based and highly supportive of LEC Technologies' efforts to leverage US-based technology as integral to LEC Tech's technology road map.

The simplicity and flexibility of programming will allow for quick customization as well as defined standardization. The form factor of the combined HMI and I/O offers high density I/O without the bulk normally found in such a device. And again, Horner is one of the few US-based manufacturers of PLC technology.

CONCLUSION / TESTIMONIAL

As a US-based quality OEM, Horner can respond quicker to supply chain challenges, technical support needs, and access to leadership. The quality and support of the product post-sales is direct and readily available. Horner quality exceeds that of its competitors at a highly competitive price. The depths of the Horner product line and their commitment to quality production and testing standards make them a strong choice where reliability and sustainability are important.

With US-based production comes the same quality of support and service from Horner. As an OEM, LEC Technologies requires key attributes such as reliability, flexibility, and availability for long term support of the components they choose. Horner has met or exceeded their needs as a fully capable supplier of these needed technologies.

"Horner provides confidence in areas of product design, reliability, supply chain, and support. The ease of real-time access to engineering and technical support allows LEC Technologies to extend superior service to our partners and customers, relying on full uptime of these mission critical solutions."

Brian Rosema, Vice President, LEC Technologies

Find out more about [LEC Technologies](#)

