



Infilink-HMI Helps Power Water Purification for Historic Brinton Museum

New Jersey based **Kessler-Ellis Products** has deployed industrial automation equipment and **Human-Machine-Interface (HMI)** software in a wide range of markets. And their industry-disrupting **Infilink-HMI** is enabling engineers to deliver unique, cost-effective automation in industries ranging from oil and gas, to manufacturing, to marine, utilities and beyond. But it's not a massive offshore 'oil rig', or large manufacturing plant that might just have the most imaginative **Infilink-HMI** application. Certainly, traditional industry reigns supreme when it comes to such automation. But far away from big business, in north-central Wyoming, just east of Big Horn National Forest, **The Brinton Museum**, and their creative leadership team are managing their own water needs with an in-house system powered in part by **KEP**.



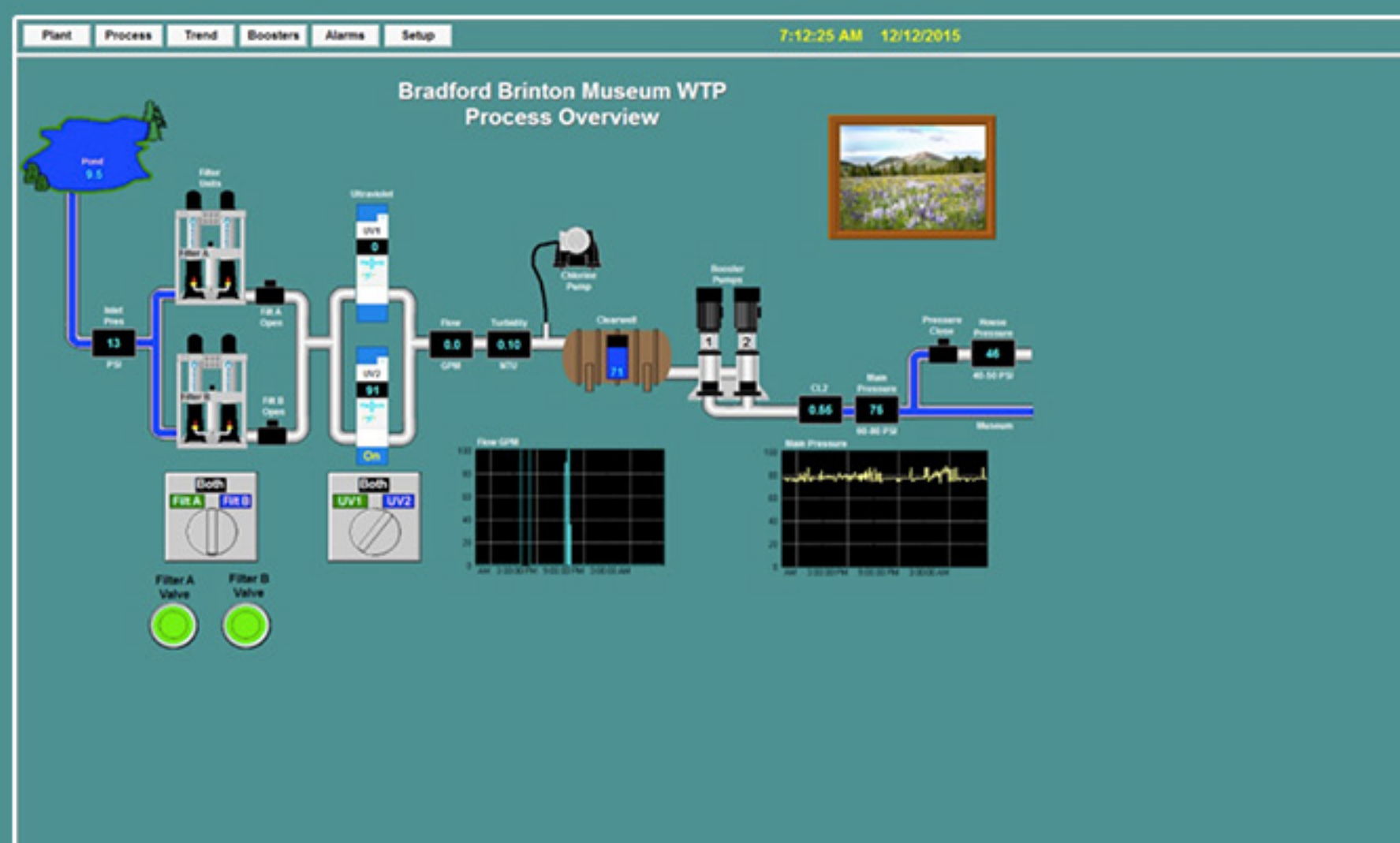
The Brinton Museum is nestled in the historic Quarter Circle A Ranch in Big Horn Wyoming. With an eco-friendly, \$21.8 million 24,000 square-foot facility, The Brinton Museum embraces its 'western' environment, while adding contemporary homage to the region's rich history. It's truly a story of the past, present and future. With an acclaimed collection of art from the 1890s and early 20th century, an unrivalled regional collection of Native American art and artifacts from the Crow tribe and a history of strong support (the museum was founded and funded via the will of Ellen Brinton in 1960), The Brinton Museum is truly a gem. In a state widely known for the Tetons and Jackson Hole's winter wonderland, the museum makes for a great reason to trek to Big Horn for an historic adventure.

Equally intriguing – to fans of industrial automation and connectivity at least – is the uniqueness of The Brinton Museum's approach to water purification. Located too far from town to maintain adequate water pressure from the public system, the museum's engineers had to develop a self-contained facility to store, treat and pump water for use in the facility. But this isn't just any system. "This is a full-blown water facility," says Gary Hinz who designed and deployed the Infilink-HMI instance within the plant. "It has chlorine – it has everything. And because it leverages ultra-violet technology, it's truly

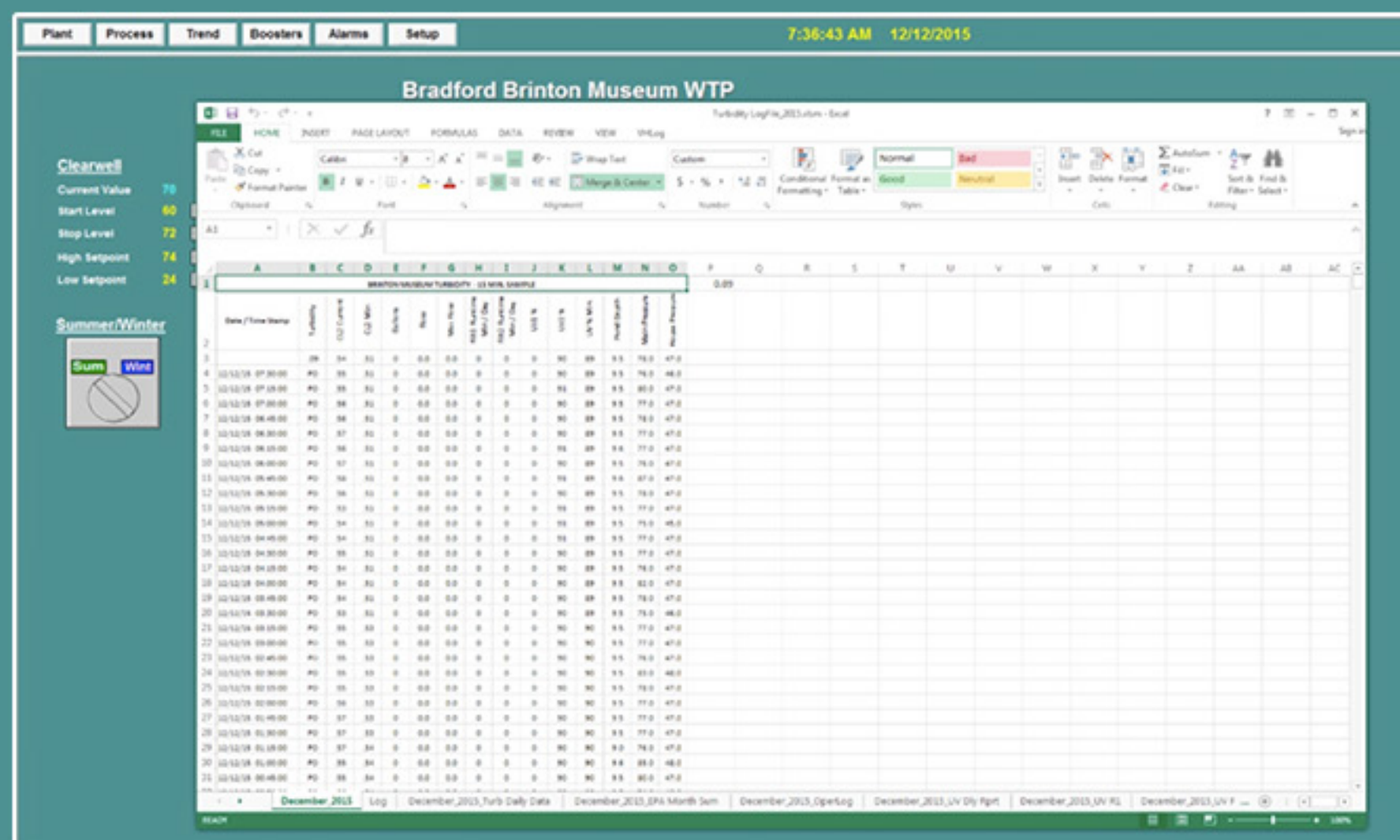


one of the most complete systems in the State of Wyoming – remarkable for a museum.” When Mr. Hinz set out to install Infilink-HMI, the machinery he describes as massive required a unique approach. Not only did it require an interface for the Programmable Logic Controller (PLC), but because EPA regulations require logged data for every 15 minutes of operation, he had to solve for that too. With a small staff, and finite resources, facilities such as The Brinton Museum need automated solutions over the more common, manual data recording seen in larger settings.

Infilink-HMI enables a very intuitive user-interface. In the case of Brinton, Hinz was able to easily portray the flow, pressure and other critical metrics essential to the operation.



And to record the EPA-required data, Hinz was able to set up software that would interface between Excel and Infilink-HMI to automatically record critical data and auto-generate required monthly reports.



Such automation, user-interface, and overall intuitive software have become a hallmark of KEP. It starts at the server level. “The KEP server has more compatible PLCs than any other server I’ve seen,” according to Hinz. And with compatibility comes functionality. “Infilink-HMI’s features compete with every other solution big and small. But KEP delivers everything you need and nothing you don’t – I’ve yet to find something it can’t do,” he continues. And the KEP differentiators don’t stop there for Gary.

“I like the small feel tech support. KEP, with Ron Dawson’s [Infink-HMI Product Manager] service has bailed me out more times than I can count. In one case, I had a client with Allen-Bradley and Wonderware and was on the phone with Rockwell support who was blaming Wonderware. I had to find a solution. I called KEP and Ron and his team had us up and running in a matter of hours. Even big companies who are spending literally 10 times as much for the same product should be considering KEP. I see the price of the competitors’ software - it’s a margin of ten times as much. It would be one thing if they were using the functionality and bells and whistles.”

“ The KEP server has more compatible PLCs than any other server I’ve seen. ” -Gary Hinz, Industrial Automation Independent Contractor

By utilizing PLC and HMI software, The Brinton Museum is an example of modern technology in a decidedly rustic setting. While this signals the proliferation of the technology, it is also a testament to the foresight in design – inside and out – in building such a remarkable sustainable facility. Ken Schuster, Director and Chief Curator since 1990, says the sophisticated, yet clean design is indicative of their commitment to quality and innovation while honoring the legacy and history the museum represents. Architectural firm Malone Belton Abel delivered on the design imperative with a stunning building featuring remarkable elements such as the world’s highest ‘rammed earth’ wall. Partners such as Gary Hinz and KEP have delivered the infrastructure required to sustain such a complete facility. And according to Schuster “a lot of great people” combine to keep the Brinton operation running smoothly.

Industrial automation technology, especially PLC and HMI software promises to enable new connectivity and control in increasingly unusual settings. Hinz, himself an independent contractor, says “sky is the limit” in Wyoming alone. But with an estimated

26 million connected devices coming online by 2020, according to Gartner, the use-cases for the technology is truly expanding. In rapidly evolving industries, the disruptor often wins. According to Harvard Business School professor and acclaimed researcher Clayton Christensen, disruptors often defeat incumbents or bigger businesses in the space by delivering lower-cost, higher-value offerings, with nimble service. KEP is perfectly positioned to deliver high-value tailored solutions for engineers seeking creative integrations for increasingly unique applications.

The Brinton Museum is one very unique use case for Kessler-Ellis Products' Infilink-HMI software. And not only is it an innovative and sophisticated software deployment to help them manage their water system, but it's also an unlikely archetype for the promise of industrial automation technology in diverse applications. A few years ago, The Brinton Museum was struggling. With a lack of funds, the assets were almost distributed, sold off or otherwise shut down. Fortunately, investors and philanthropists from around the country came to the rescue. But the same resolve required to maintain The Brinton Museum into the future will require the continued use of automation and the interaction of people and the technology that enables the efficient operation of such important facilities. The Brinton Museum has a responsibility to the environment – Infilink-HMI helps answer that call. The Museum has a responsibility for safety – the software cost-effectively enables that too.



Steve Jobs famously said that automation should not be used to save costs – but to increase quality. Fortunately, with PLC and HMI control of The Brinton Museum’s water purification system, they are able to win on both of those fronts. And while they are known for everything from rare Remington paintings to rare artifacts from across the region, lesser known – but important as well – is the museum’s role in the development of sound industrial applications.

“The museum is great for the community, great for the state and great for the nation as well,” says Ken Schuster with pride. And from an industrial perspective, greatest is its juxtaposition of old and new, combining for an experience only possible with partners such as Kessler-Ellis Products.

