FieldServer Case Study – Measurlogic

Overview

To determine how much electricity is being used by a building or facility, you simply look at the meter provided by the local utility. But sometimes that's not enough transparency. Sometimes a facility owner or manager wants to know more about the unique energy usage of just a few circuits or devices. That's where Measurlogic's submetering products and solutions come into play.

The submeters manufactured by Measurlogic don't replace the meter provided by the utility. Instead, they give users actionable insights into how that energy is being used within their facility and by their devices. By giving facility owners and managers insights into which circuits are using the most energy, they can then make decisions that can help them reduce their energy consumption and save on their energy costs.

Take an industrial facility that manufactures products on four separate manufacturing lines as an example. The utility-provided meter simply reports on the combined power consumption of all four manufacturing lines. Utilizing Measurlogic's submeter solutions, the owners of that facility can gain more granular insights into which of the four manufacturing lines is using the most energy – or which of the devices in those four manufacturing lines are using the most energy – and work to reduce their power consumption.

In other instances, Measurlogic's submeter solutions can help enterprises better recoup their energy costs. By identifying just how much energy is utilized in the manufacturing of a product, manufacturers can adjust their prices to ensure that they're covering their energy costs. Building managers, landlords and enterprises that sublet space can also identify how much energy their tenants use and bill them accordingly and accurately.

Ultimately, as power costs rise and environmental sustainability becomes increasing important for companies, Measurlogic is providing the tools enterprises need to increase energy efficiency and decrease costs.

Challenge

Featuring integrated connectivity with Modbus, BACnet and LonWorks, Measurlogic's submeter solutions can share data with a number of widely-used building automation and building management solutions (BMS). This means that Measurlogic's industrial and commercial customers can utilize their BMS to aggregate and analyze their energy consumption data.

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However, Measurlogic was increasingly fielding requests and receiving opportunities with new customers that did not have an existing building automation solution or BMS. While many of these prospects and potential customers didn't have the requirements or level of sophistication for a complex BMS that managed and monitored numerous devices and systems within their facilities, they still had a need for remote energy usage monitoring and visualization.

Sierra Monitor's Solution

Working hand-in-hand with the team at Measurlogic, Sierra Monitor was able to create a custom FieldServer IoT Gateway solution that connects the company's DTS line of submeter solutions to the cloud. With that connection in place, energy consumption data is able to be pushed into a device cloud, where Measurlogic's customers can easily log-in and access it.

Today, Measurlogic submeter owners can log-in from anywhere with an active Internet connection and monitor their energy consumption. They can download that data for analysis and visualization in third party data analytics tools. And, most importantly, they can utilize that data to garner actionable insights into their energy consumption and increase their energy efficiency. And they can do this regardless of whether they have an established, installed BMS or building automation solution.

Benefits to Measurlogic

- A "plug and play" IoT gateway solution that connects their DTS line of submeter solutions to the cloud.
- The ability to attract and sell solutions to a new pool of prospects that don't utilize BMS or building automation solutions.
- The ability to offer customers remote access to their energy consumption data in the cloud, where it can be downloaded, visualized and analyzed for actionable insights and used to cut energy costs.

"We have a group of customers and prospects that don't have an elaborate BMS system. But they have our meter and they want to visualize that data online. The Sierra Monitor-powered DTS IoT Gateway gives every Measurlogic customer the opportunity to access, aggregate and analyze their energy consumption data."

– John Stratford, Measurlogic

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