PROCESS INSTRUMENT SOLUTIONS

CASE STUDY

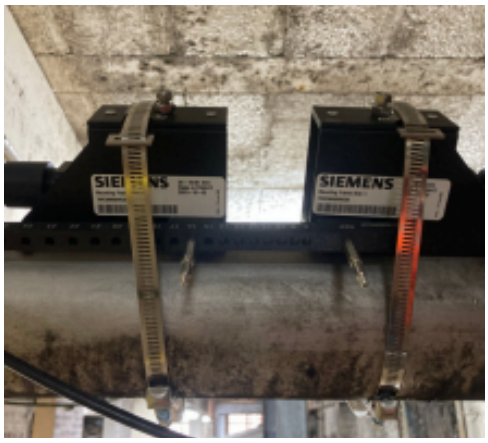
WATER METERING AND USAGE ANALYSISFOR MALTINGS COMPANY

BACKGROUND

Process Instrument Services was contacted by a prominent maltings company to address their water metering needs within one of their steeps. The company sought assistance in accurately measuring water usage to enhance their operational efficiency and resource management. This project encompassed a comprehensive scope, involving the procurement, installation, and commissioning of all requisite components. The collaboration between Process Instrument Services and the maltings company aimed to implement a robust water metering solution tailored to the specific requirements of the steeping process.

CHALLENGE

The primary obstacle faced by the customer revolved around the necessity to avoid altering existing pipework, given the nature of the project as a proving exercise. This constraint posed a significant challenge, as any modifications to the pipework could disrupt ongoing operations and compromise the integrity of the testing process. To address this challenge effectively, Process Instrument Services implemented a clamp-on system, which allowed for the seamless integration of water metering capabilities without the need for intrusive modifications.



SOLUTION

Process Instrument Services facilitated the integration of the Siemens FS220 Ultrasonic Clamp-on flowmeter, equipped with a localized display, to streamline the presentation of vital information for the maltings company. This innovative solution consolidated all relevant data into an intuitive and easily comprehensible display interface, enhancing operational visibility and decision-making capabilities. Furthermore, the incorporation of data logging functionalities empowered the company to capture and analyse comprehensive usage data over time. This strategic utilization of technology not only facilitated real-time monitoring but also paved the way for informed decision-making aimed at driving sustainable improvements in resource utilisation and operational efficiency.

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RESULT

Despite the constraints of the existing infrastructure, Process Instrument Services delivered a solution with impressive precision, achieving an accuracy rate of within 1%. This not only met the customer's needs but also showcased the company's adaptability and expertise in addressing complex challenges in process instrumentation. The solution provided the customer with a visual representation of water usage during the filling of the Steep, enabling them to detect discrepancies and prevent issues such as spillage or underfilling. Leveraging the data logging feature, the maltings company gained invaluable insights into water consumption patterns, facilitating optimisation and efficiency enhancements within their operations.

RESULT

Siemens FS220 Digital Clamp-on Ultrasonic Flow meter

The SITRANS FS220 digital clamp-on ultrasonic flowmeter provides the most essential flow measurement functionalities with superior accuracy, cost efficiency and ease of use. It is the best-in-class solution for straightforward flow monitoring of liquid processes. The SITRANS FS220 flow system consists of a SITRANS FST020 transmitter paired with SITRANS FSS200 clamp-on ultrasonic sensors, which are available in three different versions: WideBeam® (High-Precision), Universal and High-Temperature. The FSS200 sensors feature low maintenance and high precision – even for applications with high levels of aeration or suspended solids.

Callum Rumball
Site Service Engineer

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