

Micronics Press Release

FAO: The Editor

Title: Micronics - Hendy & Sons - Application Note:

Micronics – Hendy & Sons - Application Note:

Clamp-On non-invasive, ultrasonic water flow measurement to provide variable speed control of a submersible pump and ensure flow return to a local brook as key element of abstraction agreement.

Optimising usage and costs associated with water consumption is an important area in food processing and the reliability of the associated systems is essential to comply with abstraction agreements. Hendy & Sons of Taunton www.whhendyandsons.co.uk are a long established company of Drainage and Water Engineers with considerable experience in this area.

Some 10 years ago they were asked to provide a control system for a submersible pump as part of the abstraction agreement for a pig processing factory. A condition of the agreement was that 2 litres/second of the abstraction from a local underground spring should be fed back to the local brook

Having considered various measurement alternatives a Clamp-On Ultrasonic flow meter was selected due to the installation and maintenance/service benefits associated with the non-invasive technology including low cost and minimum disruption installation plus dry maintenance and service. Micronics were selected as the supplier due to a combination of their long-term experience with Ultrasonic Clamp-On technology, competitive pricing and product performance i.e. best value!

The initial system used a Micronics Ultraflow - UF2000 - Time of Flight - fixed flow meter. The flow rate signal output from the UF2000 was fed into an inverter, which modulated the speed of the pump to maintain a constant flow rate return from the underground spring to the brook. Alan Hendy says "The system including the Micronics flow meter has operated reliably for 10 years, we're delighted and the new owners of the plant are now considering the use of further UF2000's as part of their investigation into a new extended water abstraction system, which will optimise the usage and costs associated with water from a mains supply, on-site borehole and the underground spring."

This is an excellent example of the potential and benefits associated with Clamp-On flow metering/measurement as a contribution towards managing water usage and the potential for replication in similar applications is extensive. For further information call Micronics on 01628 810456 or visit www.micronicsflowmeters.com .

Ends

Editor Note: For further information regarding this release or a supporting picture please contact David Leigh on 01579 321750 or email micronics@leighandersonassociates.com