

ELECTROMAGNETIC FLOW MONITORING NETWORK FOR METALS AND MINING COMPANY

The Application...

A large Metals and Mining Company in the South of England needed to monitor its water usage and waste. There were many pipelines across various locations but the data should all be sent directly to a data interface.

The Technology...



Fig. 1: Top Left: Siemens Mag 8000 battery powered electromagnetic flow meter. Right: ABB's version, the AquaMaster.

The Solution...

RS Hydro installed a complete flow monitoring network, comprised mainly of electromagnetic flow meters. These included the ABB AquaMaster (as pictured in Fig. 1) and the Siemens version, Mag 8000 (also pictured).

Both the AquaMaster and the Mag 8000 are battery powered which made them ideal for deployment in remote areas within this Metals and Mining project.

The AquaMaster offers a 3 year battery life and rugged construction. It has no moving parts and comes complete with an IP68 submersible sensor and display unit. Designed and manufactured in the UK, the ABB AquaMaster boasts empty pipe detection and has self diagnostics for error detection.

MAG 8000 boasts 6 years maintenance-free battery-powered operation, and delivers best-in-class performance to optimise water supply. It is optimised for leakage detection and is often used for accurate billing. The integrated datalogger can be twinned with the use of a selectable alarm to signal too-high or too-low flow.

These efficient and accurate meters were installed alongside a wireless telemetry system, with SMS data loggers sending the data straight to RS Hydro's own data interface, www.flowview.net. This has minimised the need for the client to attend site, as the flow meters need very little maintenance, and the data can be viewed from the offices.

Case Study

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