

Application Note

MTG18A MagneW Two-wire PLUS Solves Plugging Issues at Tissue Mill



The Problem:

A tissue mill in Eastern Canada was using rotometers fitted with a low flow switch to monitor seal water flow to the pressure screens on the tissue machine. The rotometers were prone to plugging due to the small orifice. Although they were equipped with a plunger to aid in keeping them clean, they still became plugged periodically. This was viewed as a serious problem for the mill because with each plugging incident the tissue machine would shut down. Such outages are very costly.

The Solution:

A student engineer on work term was given the assignment of finding a more suitable solution to this critical problem. Based on the success that Alan McIvor of Weir Services had selling the MagneW Two-wire to the sister pulp mill next door, a presentation to the Instrument Dept. and Maintenance Engineer was arranged. At the presentation the student engineer got the idea that the MagneW Two-wire PLUS might be just what he was looking for. A quick review of the installation site confirmed that the MTG18A in a 5mm line size could solve the problem.

The additional benefits helped seal the deal! The MTG18A was an attractive solution because not only could it solve the plugging issue, but its installation cost was low because the 2-wire design allowed the customer to utilize the wires from the previous low flow switch. They were also able to tie the output signal of

the MTG18A into their DCS system and view the flow data.

MTG18A proves itself! Still, there was some skepticism that the MTG18A would be the right meter for the job. Initially the mag was installed in-line with the rotometer and the flow data was monitored. After a little confidence building, the rotometer was removed and the MTG18A was tied into the DCS and the shutdown feature enabled. This successful application led to the replacement of a second rotometer at the mill.



Performance and Versatility

Yamatake's MagneW TWP is the most complete loop-powered magnetic flow meter on the market.

Users can select from flanged or wafer* pipe connections in line sizes from 1/10" up to 8" (2.5 to 200mm) in diameter. Both integral and remote electronics are available to provide greater flexibility in mounting. FM/CSA Class I, Division 1 Approval is also available for use in hazardous locations.

Contact your local Yamatake Rep or call us at 1-888-2MAGNEW. To find your local representative, visit our website at www.yainc.net.

* Wafer available in 1", 1½", 2", 2½", 3" and 4" line sizes.