

## **Residual Chlorine Meters Auto Flushed with Success**

*CRIUS Autoflush chlorine analyzer from Process Instruments provides essential support for paper mill.*

June 6, 2011 (FPRC) -- Residual chlorine monitors and indeed, ozone monitors, pH meters and chlorine dioxide analysers have all been around a long time and it would seem unlikely that they could be improved upon greatly ..... but for some applications they have.

A paper mill approached Process Instruments (UK) Ltd (Pi) with a problem. They had a de-inked stock that they measured pH in to control a chemical addition. The problem was that their pH sensor was coating with ink that set hard on the glass. The pH sensors were unreliable a short time after replacement and the cost of replacing the sensors monthly was prohibitive. Following a detailed survey and discussion with the customer Pi proposed an auto-flushing device that would flush the pH sensor with warm, soapy water regularly enough to prevent rather than remove build up of ink.

Two years after installation the same pH sensor continues to give reliable results with the CRIUS® 100 chlorine analyzer not only controlling the pH sensor, but providing the PID control for the chemical addition.

The CRIUS® Autoflush is controlled by the analyser where user variables adjust the flush time, frequency and signal hold time.

Fortunately not all cleaning requirements are so tough and via a 'customer consultation' exercise (we asked them!) Pi discovered that the need to keep sensors clean is far greater than previously imagined. Since 2006 Pi has shipped approximately 50 autoflush units all using potable water to keep various sensors clean under varying conditions. Some of the applications that have benefitted from a CRIUS® Autoflush are:

- pH sensor in a de-inking plant
- free chlorine sensor in white water in a paper plant
- chlorine dioxide sensor in a food plant
- pH sensor in an industrial chemical plant

Pi has been providing instrument solutions since 1998 and supplies through Distributors, under Private Label/OEM agreements and to End Users within the Water, Waste, Chemical, Paper, Pool and Leisure industries. With offices, a laboratory and new manufacturing facilities in Burnley, Lancashire, Pi operates globally with customers in Europe, America and the Middle East, including; Technostar (Egypt), Scottish Water (UK), Crow Wood Leisure (UK), Northern Ireland Water (UK), and Chemtrac (America). More recently Pi has received awards for innovation and has quadrupled its turnover in three years.

For more information on the latest innovations in chlorine meter and chlorine analyzer technology, please visit <http://www.processinstruments.net/products/residual-chlorine-analyzer.php>

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