

Level measurement solution relieves the pressure

Condensation no longer a problem for Union Papertech



Endress+Hauser - Union Papertech success story



From its mill in Heywood near Manchester, Union Papertech supplies long-fibred, speciality filter papers to the international tea and coffee markets. The company is a leading innovator in this field and has developed a broad range of products to meet the specific needs of its diverse customer base. The mill has an annual capacity of over 6,000 tonnes from two manufacturing lines operating around the clock.

“My stress levels have really come down! Nowadays I don’t have to think what kind of level sensor I’m going to use because I know Endress+Hauser will recommend the right product for me.”

Keith Hopkinson
Instrumentation Engineer
Union Papertech Ltd

The challenge Union Papertech uses a number of pressure transmitters to monitor level in different parts of its process. But in the past measuring level in the ‘pool box’, an open tank containing a mix of water and fibre, has proved problematic. The instruments supplied by one of Endress+Hauser’s competitors continuously failed, much to the frustration of Union Papertech’s Instrumentation Engineer Keith Hopkinson. As he explains: “The actual measurement isn’t that critical in this instance but what we do need is repeatability. Week after week we need to know that the transmitter is still reading the same level. The old ones weren’t even lasting six weeks! Production used to complain about it all the time.” This instrument failure meant Keith had to spend a large proportion of the company’s planned downtime trying to fix the problem. “I can’t work on it while the machine’s running so I had to wait for the machine to shut. I’d take the transmitter off, put it on the bench and test it - but there seemed to be nothing wrong. So I’d replace it and it would fail again. It was very

frustrating, especially because the location of the transmitter makes it difficult to access.”

The solution One of Endress+Hauser’s experienced field sales engineers identified the cause of the problem on his first visit to the mill in 2011. He realised that the mill’s hot and humid environment was creating condensation that was entering the sensor and causing the drift. The solution was to replace several of the old transmitters with Deltapilot M FMB50 hydrostatic level transmitters. The measuring sensor in the Deltapilot is the unique Contite cell, which has been specially designed for plants with high levels of condensation. The ‘condensate tight’ Contite cell is hermetically sealed against the outside world guaranteeing long life, stability and reproducibility in these challenging applications. Particularly designed for use in hygienic applications in the food & beverage industry, where CIP or SIP cleaning causes extreme temperature shock, the FMB50 has also proved ideal for use in any environment where condensation is formed.



The finished product.

The results The staff at Union Papertech are now confident that the level measurements from their pressure transmitters are accurate and consistent. Due to the successful resolution of the problem, the company has now standardised on Deltapilot M FMB50s for level measurement. “In 18 months since the transmitters were replaced I haven’t had any issues with them; I haven’t had to touch them,” says Keith Hopkinson. “My stress levels have really come down! I couldn’t afford to be spending hours fixing the same problem time after time after time. So it’s not only saving on downtime but the FMB50s are actually cheaper than the ones I used to have as well! Nowadays I don’t have to think what kind of level sensor I’m going to use because I know Endress+Hauser will recommend the right product for me.”



A Deltapilot M FMB50 is now used to measure level in the ‘pool box’.

UK

Endress+Hauser Ltd
Floats Road
Manchester
M23 9NF
Tel: 0161 286 5000
Fax: 0161 998 1841
info@uk.endress.com
www.uk.endress.com