



A higher level of performance

Application Reference

Reliable bed level control and water clarity monitoring in Paste Thickeners



Application Problem:

The client had a problem to monitor a bed level in a Paste Thickener where the suspended solids turbidity changed frequently. The older sonar system failed when high levels of suspended solids were present. There were high levels of scale build-up, due to the water quality used.

Solution:

We installed a high powered 3 crystal sonar transducer developed for the mining industry that would penetrate the suspended solids in the worst scenario. The high powered array was able to monitor in the "hindered" zone which is just above the "compacted" zone of the bed. The sonar system was supplied with an automated scum cleaner, that operated every 5 minutes. The ORCA sonar transmitter provided two analogue outputs. The first was the "bed level" output and the second was the "clarity" of the water (suspended solids) between the sonar transducer diaphragm and the bed level. The "clarity" was used as an alarm for the control room to monitor the polymer dosing when the water clarity was low.

Hawk manufactures the largest range of sonar transducers to provide optimized performance, for all bed level thickener applications.

Application Guarantee: 24 month from installation.

Ordering information:

Transmitter part no: OSIRDYX	2 x Analogues + Modbus
Transducer part no: OSIRT307S4XC6	3 Crystal array sonar transducer
Scum cleaner part no: ORIRTDC-A	24V Electro-actuator
Bracket/Pipe part no: OSIRME-L3	316SS Pipe+fittings

Application guaranteed!

Hawk is a world leader in level, position and flow measurement, providing cutting edge equipment to the global industrial market. We have 30 years of experience and a record of success in a wide range of areas including mining/mineral processing, water supply/waste water, bulk material handling and chemical. Our on-going commitment is to provide industry leading technology and cost effective solutions.



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