Application Reference

Waste Water Treatment

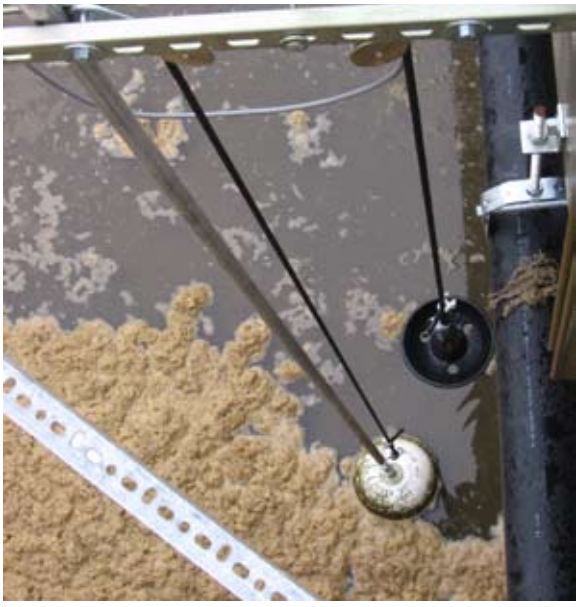
Automatically control of SBR tanks

Application problem:
A customer at a waste water treatment plant wanted to automatically control the SBR (Sequential Batch Reactor) tanks. The SBR tanks were very deep 7 meter (22 ft) and they utilised surface agitators rather than diffusers. The surface agitators created high agitation in the tank. The customer used a sludge judge to check that the process was operating within limits. The client wanted to monitor the full sequence automatically.

Solution:
We provided our floating sonar transmitter that floated on the surface as the decant levels changed. During the aeration sequence showed a high output with suspended solids. During the settling sequence the transmitted followed the settling blanket down to a level to start the decant. During the decant sequence the transmitter monitored the settling blanket to make sure it did not rise and carry over into the launders. A special counterweight was utilised to minimise the radial effects on the float when the aeration sequence was operating.

Ordering information:
Part number
OSIRDYX - transmitter
OSIRT003S4XC6 - Sonar transducer
OSIRSCD - Sonar Cleaner/Float/Brackets
OSIRME - L5 - Sonar Transducer SS Pole 5 m (16.5 ft)

Application guaranteed!



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