



Microcems Asia helps provide accurate level measurement for alkaline sump pit

The steel industry plays a crucial part in our everyday lives and is classed as a basic material for human civilization. Globally, steel is used in a great amount to support growing economies and national development, and galvanizing steel is a crucial part of the production process.

What is Galvanized Steel?

Galvanizing is the process by which clean steel is immersed into molten zinc to obtain a coating that is metallurgically bonded to it. This process provides long-term corrosion protection, as well as many additional benefits.

Galvanized steel is all around us, in a whole variety of industries including road, rail, energy plants, oil and gas, agriculture, water and waste, and sports and leisure. It can play an important role in buildings, bridges, facades, signal gantries, gates, balconies, and even sculptures. Wherever

there is a risk of steel corrosion, the galvanizing process should be used.

Before the process of galvanizing steel begins, it is crucial to ensure that the surface of the steel is free of grease, dirt, and scale. These types of contamination are removed by a variety of processes and common practice is to degrease first using an alkaline solution.

Level Measurement made simple

A steel galvanizing company located in Asia were having trouble with getting accurate and reliable level measurement in their alkaline sump pit. The site had previously installed a float switch, which would switch an alarm on as the level of the sump pit rose beyond specified levels. However, float switches are known to run into issues when there are suspended solids in the measurement medium. These were throwing up measurement errors and causing problems in the efficiency of the operation, so the end-user reached out to Microcems Asia, one of Pulsar Measurement's partners in Thailand for help.

After an initial consultation, Microcems decided that a non-contacting solution would be best placed for this application. The benefit to the end-user was that they did not have to shut down the operation for installation



Thanks to the advancement in echo processing technology, unique to Pulsar Measurement equipment, DATEM software was able to focus on the true level, ignoring obstructions in the measurement path of the transducer such as the tank walls, chains, or ladders.

and there was no maintenance for the level sensor. A dB6 transducer and Ultra Lite controller were chosen, with the dB6 using ultrasonic technology to measure the level of the Alkaline mixing tank, and the Ultra Lite used for localized level readings and pump control.

DATEM Technology provides accurate and reliable readings

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More Information

dB Transducer: www.pulsarmeasurement.com/db-transducer

Partner Locator: www.pulsarmeasurement.com/partnerlocator



Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our network of global partners all offer full support and training. Our facilities in Malvern, UK and Largo, USA are home to technical support teams who are always available to answer your call or attend your site when required. Our global presence, with direct offices in the UK, USA, Canada, and Malaysia, allows us to create close relationships with our customers and provide service, support, training, and information throughout the lifetime of your product.

By taking a step forward in echo processing technology, Pulsar Measurement addresses applications previously thought to be beyond the scope of ultrasonic measurement. This technology improves signal processing at the transducer head which has made it possible to increase resistance to electrical noise, enabling the transducer to 'zone in' on the true echo.

For more information, please visit our website:

www.pulsarmeasurement.com



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