



## Accuracy and Reliability in Solvent Tank Farm Stock Measurement

Thirteen wall-mounted UltraTWIN controllers each measure two tanks across a variety of vessel shapes including horizontal dome ended tanks split into multiple compartments. Compact ultrasonic transducers with solvent-resistant faces provide the measurement, and a Service Agreement gives the system a thorough annual health check to make sure that everything continues to perform perfectly.

HMG Paints is the UK's largest independent paint manufacturer, with a specialist portfolio of industrial coatings that are used in many applications including aircraft, commercial vehicles, and canal barges to name a few. Many of the coatings and other additives are solvent based, and the wide variety of solvent stock is held in two tank farms. Before the Pulsar Measurement equipment was installed, outdated and unreliable bubbler type level

measurement was used with each gauge requiring to be pumped by hand before a reading could be taken.

Pulsar Measurement supplied HMG Paints with UltraTWIN controllers, each fitted with two chemical-resistant ultrasonic transducers which were mounted into the top of each vessel. Pulsar Product Support Engineer Tom Edwards commissioned each controller after installation. He said, "I adjusted the parameters of the UltraTWIN controllers for an accurate measurement, by correcting for the speed of sound in each solvent vapor." The UltraTWIN systems automatically convert the level reading to display and output in liters, applying a calculation based on the size and shape of each tank. Graham Sedman, Site Engineer, said "The Pulsar Measurement equipment makes monitoring the tanks very straightforward. We're really pleased with the reliability and accuracy that we are seeing."

The UltraTWIN controllers are mounted in cabinets by each tank farm, protected by Zener barriers. HMG also purchased the optional Modbus interface and Pulsar Measurement Ultra Scan software so that they can display levels at a local PC, and see at a glance the level and most efficient re-order point for each material.



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Graham Sedman, Site Engineer, HMG Paints

HMG also purchased a Service Agreement from Pulsar Measurement which is comprised of bi-yearly visits from a Pulsar Measurement Support Engineer. Tom Edwards explains, "We take the opportunity to update firmware to the latest specification and view the echo profile for each point of measurement to make sure it remains optimized to the application. We check the outputs and the relays. We will also access the top of each tank to check each transducer to keep it in perfect operation."

## More Information



**UltraTWIN Controller:**  
<https://pulsarmeasurement.com/ultratwin>



**dB Transducer Series:**  
<https://pulsarmeasurement.com/db-transducer>

**HMG Paints:**  
<https://www.hmgpaint.com>

Established in 1930 HMG has grown to become the UK's Largest Independent Paint Manufacturer. Offering innovative and compliant paints and powder coatings to a variety of markets all backed up with outstanding technical support and customer service.



## 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](http://www.pulsarmeasurement.com)



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