



## Control & Inventory Management at Dover Docks.

The Dover Harbor Board was originally established in 1606 to maintain, administer and improve the harbor at Dover. The Port at Dover now comprises one of the busiest drive-on, drive-off terminals in the world, carrying cargo as well as 15 million passengers per year.

Pulsar has provided many non-contacting ultrasonic level measurement and control systems to the site.

### **Inventory management**

Fuel is a vital resource throughout the docks. Fuel for heating and the many vehicles and items of plant used on site is kept in a network of tanks of a variety of different shapes and sizes. Reliable inventory control is vital to keep the site running smooth. Pulsar replaced the unsatisfactory mechanical system with Ultra 3 control units and dB3 transducers. The Ultra 3 controller features volume calculations based on a wide variety of pre-programmed tank shapes, so Dover Docks staff can read the contents of the vessel without having to convert themselves. Also, the units provide alarm signals to indicate that the tanks require refilling and to warn of a high level during tanker fill. The

very short 125 mm (4.9 in) blanking distance has meant that the transducer can be mounted very close to the liquid surface, minimizing the fabrication work required to mount the transducer.

### **Pump control**

Pulsar has updated all the sewage pumping stations on Dover Docks, replacing troublesome floats with Pulsar's zero-maintenance, non-contacting ultrasonic Ultra 3, teamed with dB6 transducers. Here the key requirement is to discriminate the correct echo against the competing echoes generated by chains, pipes, ladders, and other intrusions into the well. No other system offers the performance of Pulsar's unique DATEM software, allowing the sophisticated pump control routines of the Ultra 3 to ensure that Dover Docks get the very best performance and most efficient sequencing for pump operations.

Since publishing this case study, the Ultra 3 controller has become obsolete and has been replaced with the Ultra 4 controller - offering end-users enhanced functionality in one convenient package.

## More Information

**Ultra 4:** <https://pulsarmeasurement.com/ultra4.html>

**dB6 Transducer:** <https://pulsarmeasurement.com/db-transducer.html>



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