DFM proves accurate and reliable for dredging industry vessel.

Overview

Dredging is the excavation of material from a water environment and is necessary to improve existing water features, reshape land, alter drainage, improve navigability, and for commercial use like constructing dams, dikes, and other controls for streams and shorelines. Additionally, dredging is used to recover valuable mineral deposits or marine life.

Pulsar Measurement was approached by a company in the UK that works within the dredging industry, and they wanted to incorporate flow measurement on their main dredging line to better understand the amount of material being moved during operation. There was also a need for more accurate data for the control systems and software which operate on the vessels.

Doppler technology proves its accuracy

Given the type of material that would be moving through the dredging system, water with a large concentration of suspended solids, and the logging requirements of the end-user, Craig Leakey, Regional Sales Manager for the Southwest of England, knew that the DFM 6.1 Doppler Flow Meter would be the best option and recommended this meter to the customer.

The DFM 6.1 Doppler Flow Meter features a single clamp-on sensor that simply and quickly straps to the outside of the pipe. To measure velocity, an ultrasonic signal transmitted from the sensor reflects off of moving suspended solids or air in the fluid. If the fluid is flowing, the reflected ultrasound returns to the sensor at a shifted frequency, and the DFM 6.1 continuously measures this frequency shift to accurately measure velocity.

Successful trial for the DFM 6.1

Thanks to its non-invasive installation method, the DFM 6.1 Doppler Flow Meter was trialed in the application beforehand to ensure that performance matched the customer's needs. The end-user wanted to be able to log

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flow rates and take the mA signal from the instrument to feed into their reader. The trial was done in a pump room on a 630 mm (24.8 in) mild steel pipe with a 25 mm (1 in) wall thickness, with the dredging slurry running through it.

The DFM 6.1 performed perfectly, picking up flow rates of around 7 m/s which was in line with the customers' expectations. The flow meter met the needs of the end-user and was within the budget for the product, so this trial resulted in an order for Pulsar Measurement. The end-user was impressed with how the product worked straight out of the box, with no major interruption to their process.

To learn more about our DFM 6.1 Doppler Flow Meter, or other clamp-on flow meters, visit the Pulsar Measurement website.

More Information

DFM 6.1 Doppler Flow Meter: https://pulsarmeasurement.com/dfm-6-1

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