



Triple Validation of Sluice Levels for the Environment Agency.

The River Mersey was once the most polluted river in Europe. Now, after projects led by the Environment Agency (EA), the Mersey is clean enough to have not only a wide range of wildlife including salmon but a scuba diving center near the middle of Liverpool. It is, however, still prone to flooding within the basin of the River Mersey, and a key factor within EA flood alleviation schemes are the sluices that allow flow into designated flood plains. In these sensitive areas, accurate and validated river level measurement within the sluices is vital, and the EA turned to Pulsar Measurement for a non-contacting solution.

Pulsar's answer was the cost-effective, self-contained dBi Intelligent Transducer, which provides, as standard, a 4-20mA output proportional to level, with a choice of RS485 digital communications. For a fixed purpose application such as this, the IP68 unit offers simple programming via a proprietary HART programmer (a Profibus version is also available), and the benefit of Pulsar's world-leading DATEM echo processing software. dBi transducers are robust and extremely reliable, but three transducers mounted together provides confidence that, should one fail or lose accuracy, the other two will maintain control. The dBi is a compact, non-contacting ultrasonic device, available in a choice of 3 m, 6 m, 10 m, or 15 m (9.8 ft, 19.7 ft, 32.8 ft, or 49.2 ft) range. Loop powered, dBi transducers are very easy to install and calibrate, and measurement is communicated either through the 4-20mA analog output or through the digital protocol (HART or Profibus).



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