



## Pulsar Measurement's Quantum 3 Brings Integrated Flow Monitoring to Pumping Station Management.

Northumbrian Water has installed Pulsar Measurement's Quantum 3 Pumping Station Controller which features, apart from a suite of advanced pump control functions based on Pulsar's non-contacting ultrasonic level measurement, the ability to link in up to four FlowPulse non-invasive flow monitors. Northumbrian Water has used the system to increase station efficiency by identifying underlying issues in the station infrastructure.

Pulsar Measurement have led the way in the introduction of pumping station control systems, and the latest Quantum 3 unit has taken another step forward with the integration of Pulsar Measurement's unique, non-invasive flow sensor, FlowPulse. The introduction of the sensor has allows users to add another important dimension to the control of a site, that of diagnostic flow monitoring.

Northumbrian Water installed a fascia mount Quantum 3 controllers at its Layland Beck SPS in Skelton, with a FlowPulse sensor connected to the 450 mm (17.72 in) rising main. The displays on the Quantum 3 were configured to show the changing sewage level and the flow rate as monitored by the FlowPulse. With three pumps of similar

types installed, the control routine was set up to rotate the duty pump each cycle. When pump 3 came on duty, it was clear that there was a different flow rate, a variation of over 20% compared to the other pumps. Staff at the site suspected that there was a problem with a non-return valve, and the Pulsar Measurement system proved that was indeed the case.

Quantum 3 can accept signals from up to four FlowPulse sensors, so a number of flows, pumps or mains can be monitored at the same time, with individual alarm points being set for each one. The versatile FlowPulse sensor is a unique non-invasive flow sensor that simply straps to the outside of a pipe. FlowPulse can be operated as part of a control system with digital or analog output, as a stand-alone instrument with local display or as a roving system when used with Pulsar Measurement's HandHeld Controller.

## Featured Products



### Pulsar Measurement Quantum 3 Controller

<https://pulsarmeasurement.com/quantum-3-pump-controller.html>



### Pulsar Measurement FlowPulse Sensor

<https://pulsarmeasurement.com/flowpulse-clamp-on-flow-sensor.html>

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