

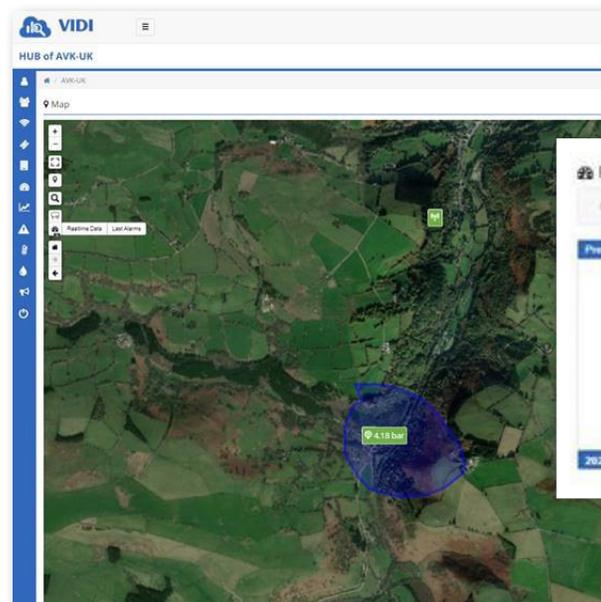


EXPECT...LASTING INNOVATIONS

NO MORE DATA BLACK SPOTS!

Since November 2020, AVK UK has been trialling two of its VIDI pressure sensors on the Hafren Dyfrdwy water distribution network. These have been installed on a pressure reduction valve (PRV) in Pandy and a hydrant at Glyn Ceiriog, the largest village in the valley, located some sixteen miles southwest of Wrexham.

Many of the communities served by Hafren Dyfrdwy are located in remote and rural areas where GSM (mobile phone) connectivity is poor and often non-existent. This is particularly true of the Ceiriog Valley. This absence of connectivity has meant Hafren Dyfrdwy has been, until recently, unable to undertake remote monitoring of its distribution network in the area.



For further details on AVK Smart Water Solutions please contact:

David Hurley- AVK Smart Water Director
T: +44 (0) 7983 706675
E: dahu@avkuk.co.uk



www.avkuk.co.uk



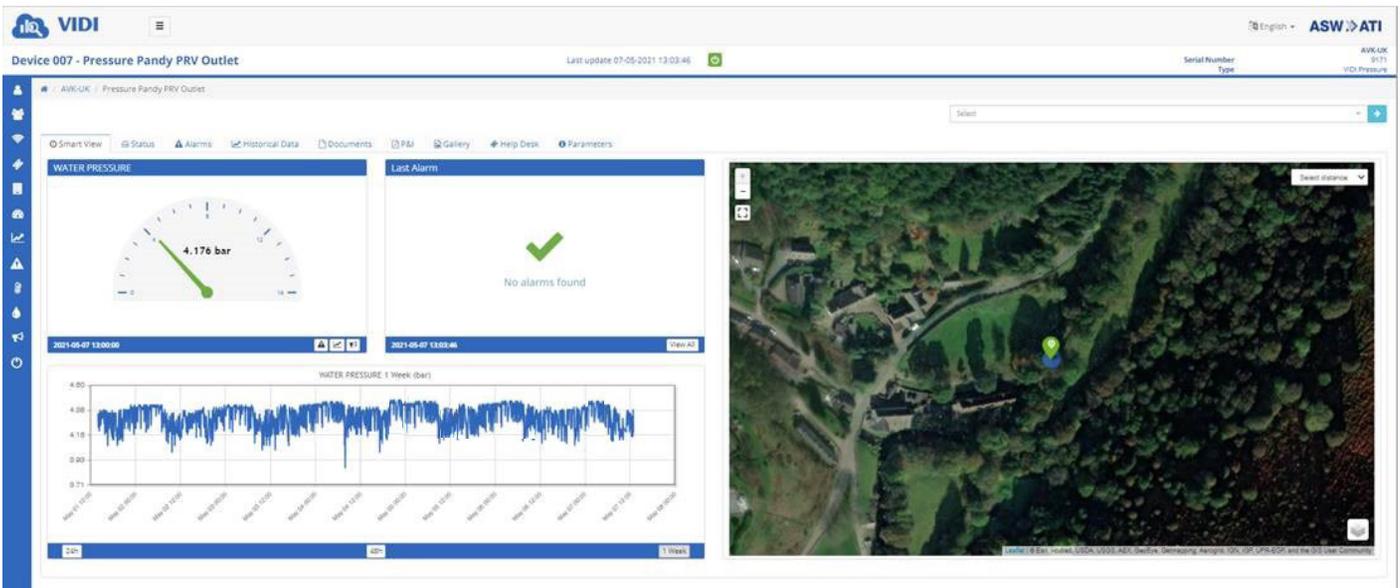
In the case of the VIDI pressure sensors, communications have been established using LoRa (Long Range) radio technology. The key advantage of LoRa is that it facilitates long-range data transmission at low levels of power consumption. LoRa enables Hafren Dyfrdwy to receive regular data from the pressure sensors without having to worry about the impact on battery life.

David Hurley leads the AVK Smart Water programme in the UK:

'This trial has effectively acted as a proof of concept for Hafren Dyfrdwy. LoRa has shown that you can install VIDI pressure, flow and temperature sensors along the Ceiriog Valley and receive uninterrupted, low cost data feedback. Remote, rural areas are resource intensive from a traditional network management perspective. VIDI sensors combined with LoRa communications technology is set to change that.'

Footnote:

In 2017, Severn Trent purchased Dee Valley Water. From June 2018, all of the water and wastewater activities of the two companies have operated under the name of Hafren Dyfrdwy. Hafren Dyfrdwy translates from the Welsh as 'Severn Dee'.



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