

# WIRELESS SENSORS FOR PRESSURE REDUCING VALVES

**Pressure reducing valves (PRVs)** play a crucial role in maintaining a reliable, efficient and safe water supply.

Reducing pressure in the supply network will

- reduce the risk of pressure surges that can lead to pipe bursts or leaks as well as prevent other damages to pipes and equipment
- minimise uneven flow rates and pressure variations to ensure a consistent water distribution to consumers
- reduce water loss due to high pressure

**Monitoring pressure levels** at PRV inlet and outlet provides data for control, maintenance and optimisation of the valve and ensures optimal performance.

Pressure fluctuations can put stress on pipes throughout the network as it forces the pipes to continually expand and contract, potentially resulting in leakages or bursts. In addition, high pressure will mean a higher risk of damage and increased water loss. That is why pressure monitoring is an important tool in the efforts to reduce water loss.

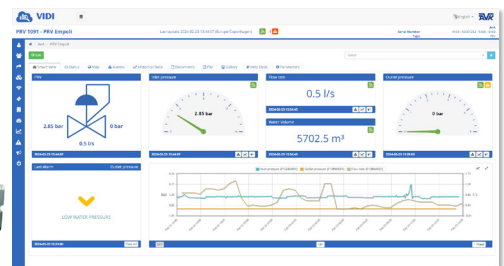
**VIDI Pressure sensors** are battery-operated IoT sensors from AVK for monitoring pressure, for example at PRV inlet and outlet.

VIDI sensors provide data directly from applications in the supply network. This eliminates the need for manual monitoring and allows for instant reactions to inappropriate pressure levels, saving both time and resources.

There is no need for external power and due to the battery and communication technology, the sensors can be installed in chambers and still transmit data. Data is transmitted to AVK's dedicated platform VIDI Cloud or can be integrated into any preferred IT system. This makes it easy to compare data and compile a complete overview of the network.

Notifications directly from the supply network

- down to every 12 minutes (custom settings)
- via SMS, email or app
- integrated with GIS or SCADA



# CASES

## Aqualauro – Spain

Aqualauro handles the technical management of water and sanitation services in the Alhaurín de la Torre municipality, located in the province of Malaga. Installation: Pressure sensors at PRV outlet, 30 pcs



## GORI – Italy

GORI delivers water services to around one and a half million citizens residing in 74 municipalities between the Italian provinces of Naples and Salerno. Installation: Pressure sensors at PRV inlet and outlet, 2,000 pcs



## Bømlo – Norway

Bømlo delivers water services to Bømlo municipality that consists of several islands and islets, located in the south-western part of Norway. Installation: Pressure sensors at PRV inlet and outlet, pilot project



*"AVK wireless pressure sensors are worth their weight in gold. Monitoring pressure levels at inlet and outlet of our pressure reducing valves with battery-operated IoT sensors saves us a lot of resources and helps us optimise performance in the supply network."*

Bømlo Water and Wastewater Company, Norway



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