

CASE STUDY



Smart ZAK water pressure monitoring

WIRELESS DATA COLLECTION MONITORING SYSTEM WITH ONLINE VISUALIZATION

The smart ZAK pressure gauge makes it easy to monitor pressure fluctuations, which can be used to detect pipe bursts and unauthorised water use. The device provides data at adjustable intervals, so you can monitor trends up to date.

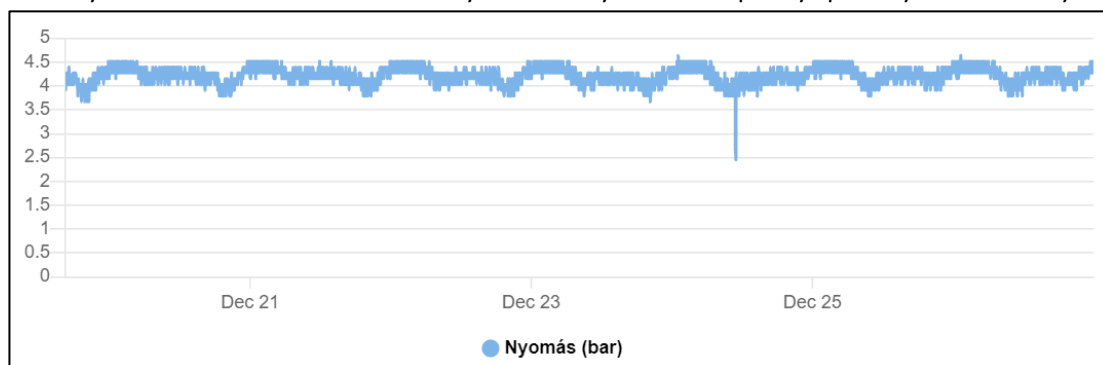
The greatest advantage of the smart ZAK pressure gauge is that it can be installed in nodes with Hawle ZAK fitting connection drill bits, manholes or directly on the pipe using Hawlinger pressure underbore drill. This technique can save on costly installation. The figure below illustrates the installation process.

DATA & FACTS

Customer: Soproni Vízmű Zrt.	Resident: 6500
Area: Sopron	Year of construction: 2006
Solution: WS IoT Smart ZAK pressure monitoring	Year of installation: 2022



Once installed, the tool sends the measurement results over the network, which can be viewed online or in the mobile app, where you can check the status of the system at any time and quickly spot any faults. The system uses graphs to visualise



the pressure levels, so that you can see at a glance if there is an event in the water network.

This graph clearly shows that, depending on the time of day, the diagram takes on a wave-like shape due to the water use of the population. The only break in the shape is a line where water theft is likely to have occurred.

As the tool sends data every 2 minutes, the time can be identified to the minute. Another useful feature of the monitoring system is that if a burst pipe should occur in the water network, it can be detected quickly as the system can be set to send a message when a given pressure value is reached. These messages can be sent by phone, SMS or email. The fast and accurate alert allows water companies to take immediate action to reduce unbilled water.

