



## JUTILITEK provides bespoke electricity monitoring solution

solving a problem PE Water Supply and Sewerage Skopje was experiencing with flooded sewers



Customer  
JUTILITEK

Industry



CLEAN WATER

Product  
Multilog 2



Application  
- Data Logging

**“Combining two HWM products created a bespoke solution that met all of the customers necessary criteria. PE Water Supply now has a variety of data to constantly monitor the effectiveness of their pumps, while also having confidence in receiving early warnings should water levels rise”**

Steve Grainger  
Project Lead, HWM

### The Challenge

During heavy rainfall events, flooding often occurred in urban areas of Skopje, affecting large numbers of residents in North Macedonia’s most populated city.

The flooding was not only affecting residents, but was also risking damage to water pumps. This required teams from PE Water Supply and Sewerage Skopje to make many costly, unscheduled visits to pump sites to check that electricity was running to the pumps and that they were still working correctly.

When it became clear that the current monitoring system in place was insufficient, PE Water Supply and Sewerage Skopje turned to JUTILITEK for support.

### The Solution

In conjunction with HWM, JUTILITEK recommended a digital solution for monitoring the electricity supply to the pumps.

**Multilog 2** was installed to constantly measure the electricity current and voltage to the pumps, providing PE Water Supply and Sewerage Skopje with the ability to check that pumps were powered and operating correctly in flood events.

As well as being a cost-effective solution, Multilog 2 was chosen as it has up to 8 different channels for data logging, meaning multiple inputs can be recorded at once.

The ability to automatically transmit logged data from Multilog 2 to DataGate, HWM's web-based viewing platform, is another reason why Multilog 2 was chosen for this project.

As part of this solution, HWM and JUTILITEK suggested that **SonicSens** be installed with Multilog 2, to provide an early warning should there be a risk of a flood event occurring.

SonicSens uses ultrasonic an electronic pulse to measure water levels and has remote alarm capabilities built in, providing real-time alerts should water be recorded above a specified level.



The primary benefit to PE Water Supply and Sewerage Skopje of using SonicSens is that real-time alarms facilitate faster response times, lessening the impact on residents.

The installation of a combination of both Multilog 2 and SonicSens has proven to be so successful in this case that PE Water Supply and Sewerage Skopje are looking into rolling the solution out to other sites within their network.

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## About JUTILITEK Solutions

Founded in Skopje, North Macedonia, JUTILITEK Solutions supplies and installs monitoring and telemetry equipment for water, wastewater and gas distribution networks.

The wide range of products and services offered by JUTILITEK each has a significant impact in helping customers to save time, effort, natural resources, energy and money.



## Multilog 2

Multilog 2 is a highly advanced and versatile multi-channel data logger designed to monitor any combination of digital and analogue signals.

Accurate, powerful and robust, Multilog 2 is an effective data logging solution.



## SonicSens

SonicSens is an ultrasonic sensor designed for measuring water level as part of a remote monitoring/telemetry system.



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