



FAST RESPONSE LEAK DETECTION SYSTEM MONITORS 24/7 PUMP STATION

Project	Jeddah Storm Water Drainage (JSWD)
Location	Jeddah, Saudi Arabia
Requirement	Fast responding, reliable and durable liquid sensing monitoring system
Results	PermAlert PAL-AT liquid leak detection system installed for entire pump station
Completion Date	January 2021

OVERVIEW

Customer's city is overwhelmed with flooding issues due to rainfall on a regular basis. There was a massive effort by the municipality to prepare a strategy to control and redirect storm water. The city's plan to overhaul the current drainage system included the updating and addition of pump stations. The customer needed a reliable liquid leak detection system with minimal maintenance to monitor these new stations.

CUSTOMER REQUIREMENTS

The pump station, located near the Red Sea, is at great risk of flooding due to high tides. Should these waters reach critical locations within the facility, it could result in severe damage and the shutdown of the station, causing the entire city to flood. The customer needed to have a reliable and fast responding leak detection system that would monitor their facility 24/7. And due to the remote location of the station, customer also require a system that is low maintenance for ongoing operation.



THE SOLUTION

PermAlert was able to provide an effective and economical solution by installing the PAL-AT leak detection system with AGW-Gold sensing cable. With a fast response time, rugged durability and minimal maintenance, it is the perfect 24/7 monitoring solution for the customer.

AGW-Gold Sensing Cable

The AGW-Gold cable was installed below the cable tray which was located in the transformer substation basement. The ruggedized design of the cable is ideal for harsh and dirty environments with no degradation of performance. The quick dry characteristic of the cable also reduces any maintenance need after exposure to liquid.



PAL-AT Control Panel

The AT30C control panel was installed in the equipment room. With its TDR sensing technology, the system is able to accurately detect presence of condensation or liquid leaks in the substation. The control panel also features unique capabilities in detecting multiple and growing leaks along the sensing cable which allow the customer to monitor the entire station with just a single panel.



PermAlert Leak Detection Intelligent - Accurate - Reliable



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