

Flood Detection System & Warning Signs



Solar Powered Flood Detection System and Warning Signs for Safer Roads and Reduced Traffic Disruption

Features

- Customisable solar powered water level detection equipment with wireless communications
- Advance warning to drivers before reaching flood affected location
- Solar powered system requiring no mains connection - suitable for remote or hard-to-access locations
- High visibility LED signage with ROAD FLOODED messaging and W170 Other Hazard warning diamond in Reflective Sheeting
- Dual language display and sign design is compliant with Traffic Signs Manual requirements
- Wireless communications between detection station and warning signs
- Reduces risk of road users entering flooded area & damaging vehicles
- Increases safety for all road users
- Fully autonomous operation with low maintenance requirements
- Zero energy consumption and CO2 emissions

Nationwide Installation

PWS provides a complete, end-to-end installation service, covering every stage of the process from initial concept through to final setup. This includes a detailed site survey, expert design guidance, and a tailored system proposal to ensure the solution meets your specific requirements. All services are available nationwide.

Warning Sign Example



System Details

Our Solar-Powered Flood Detection System combines custom water-level monitoring equipment with advanced warning signage positioned on approaches to flood-prone areas. When rising river levels reach a point where flooding of the adjacent roadway is likely, the system is triggered. A wireless signal is immediately transmitted to high-visibility, solar-powered warning signs installed nearby.

Once activated, the signs enter Active Mode. Each sign is equipped with built-in radar that detects approaching vehicles, triggering the display of a "ROAD FLOODED" warning in both Irish and English. This message is delivered using high-intensity flashing red LEDs to maximise driver awareness.

The radar-based activation ensures efficiency, particularly as flood conditions may persist for extended periods. The warning remains active for a pre-set duration when activated, giving drivers sufficient time to stop safely and avoid the hazard.

This system significantly reduces the risk of motorists inadvertently entering flooded areas and helps minimise traffic disruption. Fully solar-powered, it operates independently of the electrical grid, offering an environmentally friendly and energy-efficient solution.