FLOOD DEFENCE

FloodPump Pro®

Advanced, automatic alarm and flood pump system for larger installations



Advanced, automatic alarm and flood pump system

Deployed inside or outside, FloodPump Pro® protects properties and protected areas at risk from flooding. It is an advanced, automatic alarm and pump system designed to protect larger installations, providing continuous monitoring and automatic pump activation.

The system comprises a submersible stainless-steel sensor unit with integrated single or double-pump options, installed in a sump below ground level, and a UV-resistant stainless-steel, wall-mounted control panel. The panel can send alerts to remote monitoring and has the capability to control a range of automatic flood defence equipment.

Tried, tested and built to last

FloodPump Pro® has been specially developed from Andel's market-leading dewatering solution, BundGuard® — an established product that has been protecting assets and the environment for thousands of electrical distribution and oil storage site operators worldwide for over 30 years.

Stainless-steel submersible sensor unit

The submersible sensor unit is located in a sump below ground level, inside or outside, with a drainage channel or gully allowing floodwater to enter the sump. The unit is equipped with three conductive probes that can be configured and set to levels to suit the flood risk in any given scenario. It is available in a range of sizes depending on the sump dimensions, with a single or double-pump option.

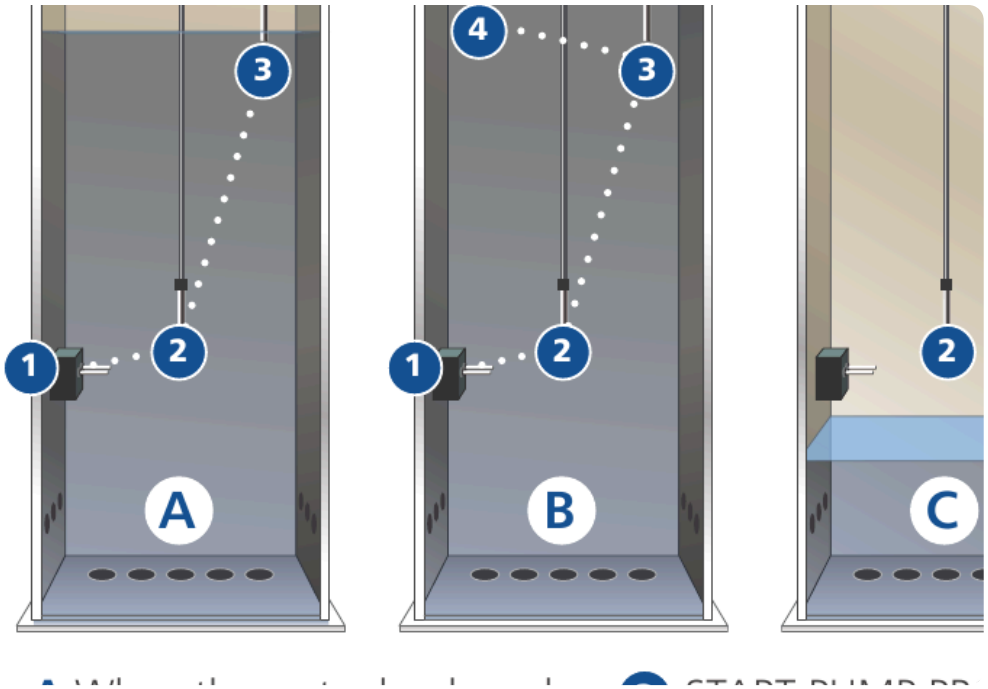
Stainless-steel, wall-mounted control unit

The UV-resistant, wall-mounted control unit recognises conductivity between the probes in the sensor unit. If water is detected between the common probe and the pump start probe, the control unit automatically activates the pump, and deactivates it when the water level drops below the pump stop probe.

Output relays provide onward communication to remote monitoring and system status alerts. The panel has an integrated, compact, vandal-proof xenon amber flashing alarm beacon with light diffuser for improved visibility.

Stainless-steel pump

The standard pump operates at a typical flow rate of 140 litres per minute. The system can also operate two pumps, either alternating to share the load or running simultaneously as a booster system. There is also an option to install larger capacity pumps if required.



Example functionality with varying amounts of floodwater in the sump, showing the common (1), stop-pump (2), start-pump (3) and high-water-alarm (4) probes.

How the system responds to rising water

- **A** — When the water level reaches the **start pump probe (3)**, the control unit activates the primary pump.
- **B** — When the water level reaches the **high water alarm probe (4)**, alarm notifications are sent via SMS and via Modbus to BMS. If fitted, the second pump is activated, and automated equipment such as floodgates, flood doors and drain flaps can be automatically activated.
- **C** — When the water level falls below the **stop pump probe (2)**, the pump(s) are switched off. Closure devices remain closed until manually opened, to avoid any external floodwater re-entering the protected area.

A choice of submersible units

As well as the Standard unit, the XL unit is available for larger sumps, and Compact and Mini units are available for smaller sumps.

Benefits at a glance

- Automatic system that can be relied upon to protect areas at risk from flooding
- Can operate up to two flood pumps simultaneously
- Array of onward communications for remote monitoring — VFC, Modbus and SMS
- Capability to control other automated flood defence equipment such as floodgates, flood doors and drain flaps
- LCD and LED screen menu display protected by a UV-resistant enclosure
- 10-year control panel warranty
- Low maintenance
- Robust and reliable with a proven track record
- Pump current monitoring and maintenance alarm — extends the life of your pump(s)

Warranty: 10-year control panel warranty.

TECHNICAL INFORMATION

STAINLESS STEEL CONTROL PANEL

Power: 110/230 VAC — 440W (1 pump running), 970W (2 pumps running)

Construction: Stainless steel, IP66 rated

Dimensions: (H) 415 × (W) 317 (excluding mounting lugs) × (D) 118 mm

Fixing: Wall/surface mount via external fixing lug

LED and LCD displays: Viewable by unlocking and opening the panel door

Display: 2 × 16 character LCD for pump cycle counter, system status and set-up menus

Indicators: LEDs — power: green; high water alarm: red; system fault: red; pump 1 active: green; pump 2 active: green; pump 1 disabled: yellow; pump 2 disabled: yellow

STAINLESS STEEL SUBMERSIBLE SENSOR UNIT

Construction: 304 stainless steel, immersion proof

Fixing: Free standing in base of sump

Dimensions — XL: (H) 1000mm × (W) 180mm × (D) 70mm

Dimensions — Standard: (H) 570mm × (W) 180mm × (D) 70mm

Dimensions — Compact: (H) 450mm × (W) 180mm × (D) 70mm

Dimensions — Mini: (H) 300mm × (W) 220mm × (D) 55mm

STANDARD PUMP

Power: 250W

Voltage: 220–240 VAC / 50Hz

Construction: 304 stainless steel with mechanical shaft seal

Dimensions: (H) 320mm × (W) 168mm

Weight: 6kg

Max flow: 140 litres per minute

Max head: 8m

Outlet: 1.25 inches BSP

Power connection: 10m flying lead

Fixing: Integrated as part of the sensor unit

CONFIGURATION & MAINTENANCE

Factory configuration: Configured in the factory prior to delivery; some on-site adjustment may be required on installation. No further calibration is required.

Maintenance: Every 6 to 12 months depending on site conditions.