

## FLOOD DEFENCE

## FloodPump



An industry-unique, advanced, automatic flood pump system that can be deployed inside or out, protecting buildings and protected areas at risk from flooding. The system works continuously and automatically 24 hours a day, 7 days a week, 365 days a year.

### System fault relay

Signals when the FloodPump unit has detected that the probe unit has signalled a state that is not within normal operating parameters. For example, detecting water at the high water probe, but not at any of the lower water probes.

### 240V Common alarm

Signals when any high water or system fault is present on the system by switching 240V to the common alarm terminals.

### Maximum number of pumps

The FloodPump unit will support two simultaneously attached pumps. These can be configured to alternate pumping cycles or both operate simultaneously. The user can also configure the high water alarm to trigger both pumps to operate regardless of the normal alternate or simultaneous pumping routine.

### Pump current monitoring

A small current transformer enables the controller to detect the current through each of the pumps. A user can specify a current limit for each pump that when exceeded could signify a failing pump, or blocked inlet.

### MODBUS RTU via RS485

All information stored by the FloodPump, including event logs can be requested by the connected MODBUS client.

### SMS and GSM signalling

The user can enable the plug-in GSM/GPRS module to enable SMS alarm notifications.

### Menu System

The FloodPump can be configured via the embedded buttons and LCD user interface. The user can also cycle through event logs, see the pump cycle counter, flow meter values, and receive textual errors should the system encounter a fault.

### Event and time logging

As standard, the FloodPump control unit will log the date and time of any alarm or event that occurs which would be of aid to the fault diagnosis process. This data is available to the user via the LCD menu system, or via specific MODBUS data addresses.

### Alarm accept

A user can accept an alarm that is currently raised by pressing the accept button on the front of the control panel enclosure. Any currently raised alarm's output relay will be temporarily disabled until the system detects a transition from alarm ON to alarm OFF.

### Connector detection

The FloodPump control unit will automatically detect whether a connector is seated correctly in the FloodPump unit. This helps the installation process and is useful in the fault finding process.

### Battery backup

A 6v lead acid cell may optionally be installed within the control enclosure to provide backup power to the control and signalling circuitry in the FloodPump unit. When the mains power fails and the battery backup is installed, the FloodPump will deactivate all relays and pumps, and signify the event via GSM (if installed) and MODBUS. A charging circuit is provided to keep the battery charged from the mains supply.

### Flow Metering

A flow meter may optionally be attached to the FloodPump unit to monitor the volume of water pumped from the bund. This volume may be obtained via visual inspection of the menu system, or via specific MODBUS data addresses.

### Outlet filter pressure sensors

For each pump, an optional filter pressure sensor can be installed to enable the filter pressure alarm functionality. A user can set a specific pressure threshold and the FloodPump unit will signify this alarm back to the user.



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