



by AUSTRAL ENERGY
Predictive Water Management Systems



Predict and Protect



DUAL PUMP CONTROLLER

Description

This control panel provides advanced monitoring and early fault detection, allowing you to capture faults before they present a negative impact to your site and business. The dual pump controller focuses on predictive maintenance, featuring built-in earth leakage detection on pumps and floats. Also features an easy to use remote monitoring plug in device, with long range wireless for underground basement or low mobile coverage areas.

Improved Safety and Reliability

To improve on personal safety and property protection, our control systems provide several monitored inputs, including advanced circuitry for detection of multiple earth faults. Predictive maintenance is provided by in-built circuitry allowing the control panel to detect and provide alerts to future pump failures. This improves the safety of personal by reducing the need for numerous site visits in areas that are difficult to access.

Battery backup – alarming

Control battery backup provides instant power loss alarms, strobe and siren activation. Where the remote monitoring is used, instant messaging is also activated. With the battery backup, the status of the entire system is known, including low and high levels, which helps manage response times.

Remote Monitoring

The Dual pump controller comes with a remote monitoring options. A simple plugin device provides a full suite of monitored points via our platform, including additional multi-level earth leakage feedback, pump control status, average pump runtimes, total pump run times, blockage detection, rotor jam, overload, location mapping, instant alerts, alarming, annual reporting and configurable to IoT platforms.





Functions

Operation modes	Auto/Manual/Off (<i>cycle of pumps when on auto</i>)
Control panel type	Push button electric keypad indicator lamps
Input	Low level Float / high level Float, thermal overload, pressure switches
Outputs	Dual pumps, strobe and siren
Earth fault detection	10mA to 100mA dual pump earth fault 2 stage indication to key pad
Input fault detection	Detection on failing inputs
Backup	Battery backup controls only full operation
Alarms	Strobe and siren with mute on siren

Specifications

Applications	Sewer, storm water, pump outs
Upstream circuit protection minimum	20Amps
Electric circuit type	220VAC / 400VAC <i>neutral required</i>
Rated disconnecter contactors	IEC/EN60947-3
Disconnecter terminal size	0.75mm-10mm (copper conductor only)
Earth terminal size	0.75mm-4mm
Input terminal size	0.2mm-4mm
IP degree of protection	IP65 to EN/IEC 60629
Enclosure material	Polyurethane - Galvanised steel
Enclosure type	Double door (external + internal)
Depth	200mm
Width	400mm
Height	400mm enclosure + 50mm strobe
Weight	19kg
Operational temperature	-20 °C to 40 °C

- ✓ For sewer, stormwater pumps, pressure water pumps
- ✓ Pushbutton control panel with visual feed back
- ✓ Padlock-able main switch
- ✓ Predictive maintenance
- ✓ Advanced monitoring
- ✓ Self-testing pumps, floats or input switches
- ✓ Greater level of safety through earth fault detection
- ✓ Better reliability for planned repairs
- ✓ Optional remote monitoring

Control Panel Series

Series	Overload protection rating
(220VAC – 1P) (400VAC – 3P)	AMPS
BLKSS210-21P – (220VAC) BLKSS210-23P – (400VAC)	2.8-4
BLKSS210-41P – (220VAC) BLKSS210-43P – (400VAC)	4.5-6.3
BLKSS210-71P – (220VAC) BLKSS210-73P – (400VAC)	7-10A
BLKSS210-91P – (220VAC) BLKSS210-93P – (400VAC)	9-13A



Remote Monitoring - IoT

Simplified Remote Monitoring Options

- ✓ Simple plug in the modules
- ✓ Safe and secure
- ✓ Leave it upto us or Signup, email us device id details and you're done
- ✓ Instant email notification
- ✓ Instant alarm alerts
- ✓ Bi-annual condition reports
- ✓ Predictive maintenance
- ✓ Configurable options to interface with other IoT platforms eg salesforce, Azure

Remote Monitoring Dashboard

Our cloud based platform provides users the ability to monitor and interact with connected devices. The dashboard provides visualisation of each connected device including location maps for the specific location of each device. The dashboard provides, status of pumps and controls, auto, manual, off, pump runtimes, input, earth fault levels, replacement indications and more.

Wireless modules

There are two plug-in modules available for the pump controllers that provide full coverage of the site or building basements. A long range wireless module is used for underground basement or areas with low mobile coverage, with an additional gateway to receive and transmit via the mobile network. The gateway can support up to 250 devices on site. Refer to device data sheets for more detail.

The screenshot displays a 'Pump System Report' interface. On the left, there are sections for 'CLIENT DETAILS' and 'SYSTEM DETAILS'. The main area shows a floor plan with several green markers indicating device locations. On the right, a 'Controller Settings' panel shows 'Pump 1' set to 'AUTO' and 'Pump 2' set to 'OFF'. Below this, 'Earth fault levels' are shown with progress bars for Pump 1 (30%) and other pumps (0%), with a 'Low Fault detected' alert for Pump 1. At the bottom, there is a photo of a person working on a pump unit in a manhole.