OIL STORAGE MAINTENANCE AND COMPLIANCE

BundGuard® 5

Market-leading, automatic bund dewatering and high-oil alarm solution for site operators



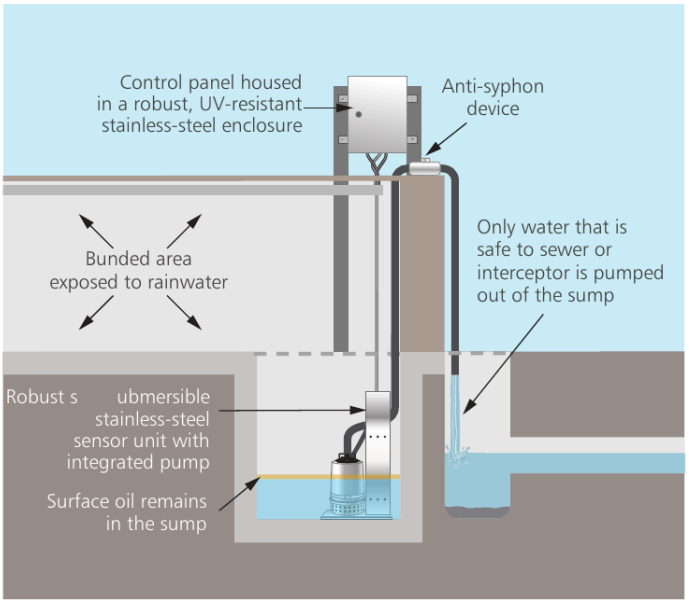
Over 50,000 BundGuard® units are protecting customer assets and the environment in over 20 countries

Andel's BundGuard® system was developed in 1992 as a response to the UK electricity industry's need for an effective dewatering solution at substation sites. Today, over 50,000 BundGuard® units are operating in over 20 countries, protecting site operators and protecting the environment from contamination from oil spills.

BundGuard® protects your site 24 hours a day, 7 days a week, 365 days a year

BundGuard® is a robust, cost-effective and easy-to-fit dewatering and high-oil alarm system, comprising a control panel, submersible sensor/pump assembly and mounting system with a proven track record that speaks for itself.

In rigorous tests, BundGuard® is shown to separate oil and water effectively — in fact less than 5 parts per million of oil is present in pumped discharge water.



For more information:

BundGuard® keeps surface oil contained in the sump while pumping out only water that is safe to sewer or interceptor.

BundGuard® expels rainwater and keeps oil contained within the bund

Because most bunds are exposed to the elements and are likely to fill with rainwater, the containment capacity of a bund can be compromised, creating the risk of oil overtopping the wall in the event of a tank failure.

Using advanced circuitry and micro-controller technology, BundGuard® discriminates between oil and water, keeping oil contained and pumping water from the sump in the bunded containment area.

The robust, submersible stainless-steel sensor unit monitors the different liquid levels via a series of conductive probes. The control unit activates the pump as required to remove only clean water, safe to sewer or interceptor, depending on site circumstances.

Robust and reliable

BundGuard® can be relied upon to give consistently accurate readings, avoiding problems often experienced with some other dewatering pumps, where sensor units are prone to false readings or repeatedly activating on and off, damaging pumps and burning out components.

BundGuard® control panel and submersible sensor unit are supplied as standard in robust, UV-resistant, stainless-steel enclosures. With regular maintenance, BundGuard® units have proven to perform for upwards of 15 years in all weather conditions.

Enhanced control, communications and functionality

- 2-pump capability
- LCD menu display
- High oil alarm, high water alarm, mains failure alarm, system fault alarm
- Pump disable
- Historical data
- Delay customisation
- Technical support code
- Connector disconnection alarm
- Textual alarms
- Filter back-pressure monitoring support
- Outlet water meter support
- Pump current monitoring
- Auto changeover
- Over-current disable
- Battery backup
- Modbus RTU interface
- SMS alarm forwarding (optional)

A choice of submersible sensor units

As well as the Standard unit, the XL unit is available for larger sumps. Compact and Mini units are also available for customers with an existing sump with smaller dimensions than a standard modern sump.

Special builds

Andel has a team of experts that can adapt BundGuard® to deal with a variety of site conditions and special requirements:

- Semi-ATEX units — sensors and pumps for zone 0 areas with control panels fitted in non-hazardous areas
- Units linked to pH sensors
- Units linked to ammonia sensors
- Units linked to detect unwanted contaminants in a site's trade effluent
- Control units supplied in GRP enclosures to fit customer specifications
- Automatic sump frost protector systems for extreme weather conditions
- Adapted to include power coupling for portable generators

Optional xenon amber flashing alarm beacon — compact, vandal-proof with a light diffuser for improved visibility. Weatherproof to IP67, with a choice of installation locations.

Benefits at a glance

- 10-year control panel warranty
- Low maintenance
- A market-leading established product
- Robust and reliable with a proven track record
- Over 50,000 BundGuard® units installed in over 20 countries, protecting site operators and the environment
- Fully automatic water pumping — oil is always retained within the bund
- Rigorous tests show BundGuard® performs to less than 5 parts per million of oil in pumped discharge water
- With regular maintenance, BundGuard® units have proven to perform for upwards of 15 years in all weather conditions
- Clear LED display
- Removes the need for regular bund emptying by waste contractors, reducing costs, carbon footprint and environmental impact
- Early warning alarm for abnormal oil level, allowing timely action to prevent damage to the environment
- Array of onward communications for remote monitoring — VFC, Modbus and SMS
- Pump current monitoring and maintenance alarm — extends the life of your pumps
- Can be adapted to deal with a variety of site conditions and special requirements

Warranty: 10-year control panel warranty.

Configurations

BG Control Panel Issue 5 Option 1
Item 500267

BG Control Panel Issue 5 Standard
Item 500278

BG Control Panel Issue 5 Option 1 + GSM
Item 500309

BG Control Panel Issue 5 Option 1 110Vac
Item 500401

BG Sensor Issue 5Mini
Item 500404

BG Sensor Issue 5M Prem 1 PMP HT NRV PSkirt
Item 500415

BG Control Panel Issue 5 Option 1 POLISH
Item 500562

TECHNICAL INFORMATION

STAINLESS STEEL CONTROL PANEL

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

Construction: Stainless steel, IP66 rated (Also available to National Grid spec in GRP enclosure)

Dimensions: (H)410 x (W)262 x (D)100 mm

Indicator LEDs: 1. Power – Green; 2. System Fault – Red; 3. Pump 1 Active – Green; 4. Pump 2 Active – Green; 5. High Oil Alarm – Red; 6. High Water Alarm – Red; 7. Pump 1 Disabled – Yellow; 8. Pump 2 Disabled – Yellow

Display: 2 x 16 characters LCD for pump cycle counter and system status plus set-up menus when accessed

Fixing: Wall/surface mount via external fixing lug

SENSOR UNIT

Power and Voltage: Nominal

Construction: Stainless steel, immersion proof

Dimensions: XL – (H)1000mm x (W)180mm x (D)70mm; Standard – (H)570mm x (W)180mm x (D)70mm; Compact – (H)450mm x (W)180mm x (D)70mm; Mini – (H)300mm x (W)220mm x (D)55mm

Fixing: Free standing in base of sump

STANDARD PUMP

Power: 250W

Voltage: 220-240Vac/50Hz

Construction: 304 stainless steel with mechanical shaft seal

Dimensions: (H)320mm x (W)168mm

Weight: 6kg

Max Flow: 140 litres per minute

Max Head: 8m

Outlet: 1.25 inches BSP

Fixing: Integrated as part of the sensor unit

Power connection: 10m flying lead for power connection

FIXING AND CONFIGURATION

BundGuard® is supplied complete with a fixing kit, anti-syphon device and 5 metres of 18 bar flexible hose. The unit is configured in the factory prior to delivery though some on-site adjustment may be required on installation. No further calibration is required. Maintenance should be carried out every 6 to 12 months depending on site conditions.

PLUG-AND-PLAY OPTION

A Plug-and-Play option is also available to simplify site maintenance where site conditions mean that BundGuard® units may require more frequent attention. All connections between the sensor unit and the control panel are via IP68 connectors.