



Leak Detection & Environmental Protection for **DATA CENTRES**

Made in the UK. Delivered globally.



Leak detection for modern data centre infrastructure



Early warning for mission-critical environments

Andel's Floodline® leak detection systems support and align with the operational objectives of EN 50600-3-1 (Management and Operational Information) through integration with centralised monitoring platforms, real-time alarm delivery, multi-parameter environmental monitoring and automated incident response. This includes seamless integration with BMS and DCIM platforms to support centralised operational control and visibility, in line with EN 50600-3-1.

Designed for evolving data centre cooling systems

Water and conductive liquids are among the highest-impact risks to data centre operations, especially as rack densities increase and cooling evolves. Andel systems monitor today's cooling architectures – from chilled water and CRAC/CRAH to in-row, rear-door heat exchangers and direct liquid cooling at rack level.

Early detection delivers clear visibility, enabling fast, proportionate response before minor leaks or condensation escalate into service-affecting events.

Non-conductive liquids, including oil, are monitored separately using dedicated hydrocarbon sensors.



Benefits of Andel's Floodline® system

- Accurate, fully mapped leak pinpointing
- Zonal and distance-measuring detection at scale
- Electrically isolated zones for uninterrupted monitoring
- Adjustable sensitivity to reduce false alarms
- Simultaneous monitoring of water, oil, gas, temperature and humidity
- Designed for high-density and liquid-cooled rack environments
- Automatic isolation of water, oil and gas supplies where required
- Seamless integration with BMS, DCIM and third-party systems
- Addressable system – multi-sensor zones with pinpoint leak location
- Resilient and scalable platform design for evolving infrastructure
- Low-maintenance architecture with all intelligence located above floor level
- 10-year warranty on all Floodline® products

Targeted detection – not just room-level alarms

Both zonal and distance-measuring detection provide clear visibility with fully mapped pinpointing of issues across racks and cooling infrastructure.

This insight enables faster decisions without unnecessary disruption to live operations.



DETECT. LOCATE. ISOLATE.

Andel's Floodline® leak detection system provides the full cycle of detection, locating, reporting and safety shut-off.

Integrated environmental monitoring

Alongside water leak detection, Andel systems support monitoring of gases commonly associated with data centre environments, including refrigerants and other process gases. Temperature and humidity monitoring helps maintain stable operating conditions, while water, gas and oil monitoring can be combined within a single platform and integrated with BMS and DCIM systems to support a coordinated response.



WATER



OIL



MULTI-GAS



REFRIGERANTS



TEMPERATURE



HUMIDITY

Resilient and scalable

Andel's Floodline® system offers a choice of intelligent and hybrid control platforms capable of monitoring multiple sensor types across complex data centre environments, with seamless integration into BMS and DCIM systems.

Designed for flexibility and scale, Andel solutions integrate easily into existing infrastructure and expand from edge and enterprise facilities to large colocation and hyperscale sites. The platform-based design allows monitoring capability to expand as cooling strategies, layouts and operational requirements evolve.

Through a trusted network of distribution partners, Andel supports projects from system design, installation and commissioning through to ongoing maintenance.



All Andel Floodline® products are covered by a 10-year manufacturer's warranty. Terms apply.

A selection of Floodline® leak detection products

Control and alarm panels



Floodline® HLD

Award-winning hybrid system, built for large-scale, multi-system monitoring. Supports up to 352 zones of leak detection and environmental monitoring, with distance-measuring capabilities.

Sustainability compliance: WELL v2 W07, A05, A08, LEED v5 WEc1, EAc7, EQc5 and BREEAM v7 POL01



Floodline® HLD Remote Display

Provides remote access to a Floodline® HLD control panel from a designated on-site location. The display mirrors the main panel in real time, enabling full system operation without being physically present.



Floodline® MultiZone

Flexible, multi-zone leak detection system for water, oil and gas, available in 4, 8 or 16-zone configurations and compatible with the full range of Floodline® sensors.

Sustainability compliance: WELL v2 W07, A05, A08, LEED v5 WEc1, EAc7, EQc5 and BREEAM v7 POL01



Floodline Ranger® HLD

Hybrid control panel combining zonal and distance-measuring leak detection, supporting up to 24 zones or 16 distance-measuring cables.

Sustainability compliance: WELL v2 W07, A05, A08, LEED v5 WEc1, EAc7, EQc5 and BREEAM v7 POL01



Floodline 1-Zone

Monitors a single Floodline® zone – from a point sensor to distance-measuring cable runs up to 1,500 metres. Compatible with the full range of Floodline® sensors.

Sustainability compliance: WELL v2 W07, A05, A08, LEED v5 WEc1, EAc7, EQc5 and BREEAM v7 POL01

Floodline Ranger® 2

Hybrid leak detection with zonal and distance-measuring capability. For medium-sized installations – up to 24 zones or 16 distance-measuring cables, or a combination.

Sustainability compliance: WELL v2 W07, A05, A08, LEED v5 WEc1, EAc7, EQc5 and BREEAM v7 POL01



Floodline® VCP 8-Way Valve Control Panel

Controls the operation of up to eight isolating valves to shut off water, oil and gas supplies if an alarm is triggered.

Floodline® 1-Zone Module

Cost-effective, DIN rail design, single-zone leak detection module. Integrates into control systems, AC units and BMS – providing continuous single-zone monitoring.

Sustainability compliance: WELL v2 W07, A05, A08, LEED v5 WEc1, EAc7, EQc5 and BREEAM v7 POL01



Sensors

Floodline Ranger® 2 Cable

Distance-measuring sensor cable for floor-mounted applications and pooling leaks, monitoring up to 1,500 metres with precise location.

Sustainability compliance: WELL v2 W07 and LEED v5 WEc1



Floodline Ranger® 2 High-Sensitivity Cable

Distance-measuring cable for suspended applications, with absorbent wrap detecting micro-leaks up to 1,500 metres with precise location.

Sustainability compliance: WELL v2 W07 and LEED v5 WEc1



Floodline® Multi-8 Cable

Water-sensitive cable providing up to eight independently reporting detection zones from a single run, tested to EN 50575 for fire performance.

Sustainability compliance: WELL v2 W07 and LEED v5 WEc1



Floodline® 1-Zone Cable

Single-zone water-sensitive cable for dedicated applications. Ideal for drip trays, floor voids, kitchens and localised areas within data centres or server rooms.

Sustainability compliance: WELL v2 W07 and LEED v5 WEc1



Floodline® Multi-8 High-Sensitivity Cable

Water-sensitive cable for suspended applications with absorbent wrap detecting micro-leaks. Providing up to eight independently reporting detection zones from a single run, tested to EN 50575 for fire performance.

Sustainability compliance: WELL v2 W07 and LEED v5 WEc1



Floodline® 1-Zone High-Sensitivity Cable

Single-zone water-sensitive cable for suspended applications, with absorbent wrap detecting micro-leaks. Ideal for dedicated areas within data centres or server rooms.

Sustainability compliance: WELL v2 W07 and LEED v5 WEc1



Floodline Flexi-Pad®

Flat, flexible sensor for leak detection in confined spaces – including narrow voids, pipework, plant equipment and drip trays. Can be used individually or grouped to form a single zone.

Sustainability compliance: WELL v2 W07 and LEED v5 WEc1



Floodline® Point Sensor

Compact, robust sensor that detects the presence of water and conductive liquid on contact, ideal for plant rooms, basements and floor-level applications.

Sustainability compliance: WELL v2 W07 and LEED v5 WEc1



Floodline® Digital Refrigerant Gas Sensor

Calibrated to detect specific refrigerant gases, with scalable deployment across installations of any size.

Sustainability compliance: WELL v2 A05, A08, LEED v5 EAc7, EQc5 and BREEAM v7 POL01



Floodline® Oil Leak Sensor

Compact, robust sensor using optical technology to detect the presence of oil. Stand-alone or part of a Floodline® system. For areas such as oil tanks, plant rooms, pump sets and generator installations.



Beyond the data hall – products to manage water, oil and environmental risks across the wider site

Water sustainability – managing water as a critical resource

As data centres adopt more water-dependent cooling strategies, effective water management becomes increasingly important.



Andel systems monitor flow, detect abnormal usage and automatically isolate supply where required — reducing waste and protecting infrastructure.

Water sustainability products

PIR WaterSave®

Motion-activated water control system that supplies water on occupancy and shuts off when vacant, reducing water wastage, preventing damage through leaks and lowering costs.

Sustainability compliance: BREEAM v7 WAT03



FlowGuardian®

Robust major water leak detection and high water usage alarm system. Monitors mains water flow between site boundary and property. Supports water conservation and reduces water costs.

Sustainability compliance: LEED v5 WEC1, BREEAM v7 WAT02 and WAT03, CIREG



FlowStop® 2

Sustainable, cost-effective and NSF and Watermark approved, automatically isolates your water supply in the event of abnormal flow activity or the risk of freezing pipes.

Sustainability compliance: BREEAM-NL WHAT03



AqueSense®

Compact, cost-effective leak detection for air conditioning units and water-prone areas, with stand-alone low-point monitoring and integration with BMS or wider systems.

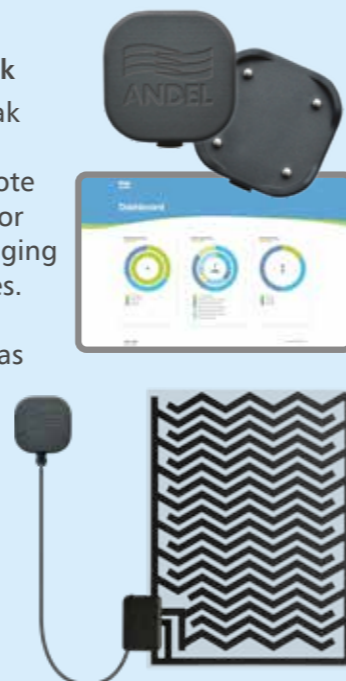
Sustainability compliance: WELL v2 W07 and LEED v5 WEC1



Andel CloudConnect® Puck

Compact, Wi-Fi-enabled leak detection system with real-time alerts and secure remote monitoring via web portal or mobile app, ideal for managing single or multiple properties. Can connect to other leak detection equipment such as Floodline Flexi-Pad®.

Sustainability compliance: WELL v2 W07 and LEED v5 WEC1



Oil storage products

Oil-filled transformers and fuel storage systems present a significant environmental risk. Andel delivers engineered containment, monitoring and controlled dewatering to prevent pollution and support regulatory compliance.



BundGuard®

Market-leading bund dewatering system that automatically removes rainwater while retaining oil within the sump, supporting pollution prevention and maintaining bund containment capacity.

Tested to discharge water with less than 5ppm hydrocarbons, and effectively zero hydrocarbons when used with FilterSepta®, Andel's above-ground separator.

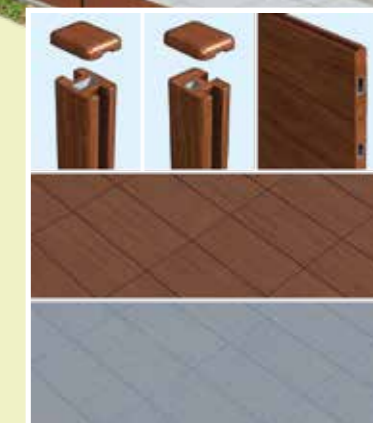
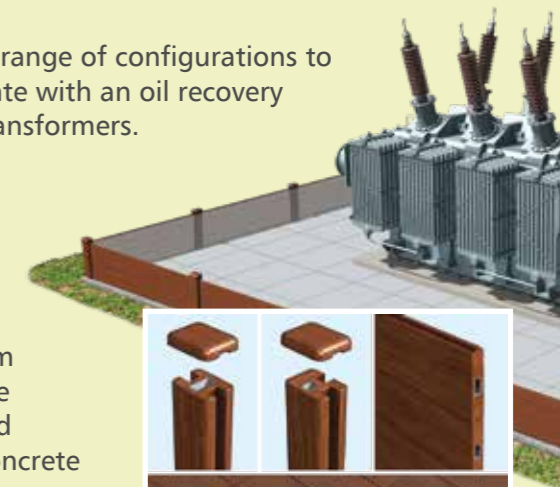
BundGuard® is available in a range of configurations to suit site conditions and climate with an oil recovery option for sites with leaky transformers.

ReBund®

Modular, retrofittable secondary containment for tanks, transformers and plant.

Supplied as panels, posts and base slabs, manufactured from nonporous 100% recycled plastic, forming a robust structure resistant to weather, UV, chemicals, temperature, impact and moisture – with a lower carbon footprint than traditional concrete bunds.

Quick to install with panelised construction. Steel-reinforced panels and posts provide added strength.



Internal surfaces can be treated with CFLM for complete liquid retention.



Cold Fusion Liquid Membrane (CFLM)

Fast-curing liquid membrane for seamless waterproofing and containment. Creates a flexible, fully bonded, watertight and fire-resistant seal on most hard surfaces.

Quick to apply, bridging cracks and delivering long-term durability. UV, weather and chemical resistant with a 20+ year service life.

Originally developed for bund protection, CFLM can also be used across a wider range of waterproofing applications.

FilterSepta®

Above-ground Class 1 oil/water separator for enhanced pollution control.

Provides a secondary safeguard for bunded systems, removing residual oil and debris to support safe discharge and reduce environmental risk. Designed to operate alongside BundGuard® dewatering systems. In conjunction with BundGuard®, the system delivers effectively zero hydrocarbons in discharged water.

Lightweight, robust HDPE construction for easy installation and on-site maintenance, with accessible silt trap and reusable coalescing filters.

Delivers high-performance separation to EN 858-1 standards, eliminating the need for costly underground interceptors.

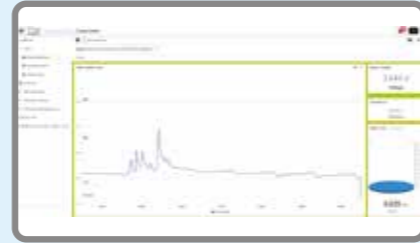


Flood defence products

Data centres are increasingly exposed to extreme rainfall and flood risk. Andel delivers a suite of flood defence products, supporting proactive flood risk management across critical infrastructure.

Andel FloodAlert products

Real-time water level monitoring and early flood warning system. Continuous monitoring of rising water levels and flood risk, enabling proactive response and reduced disruption. Radar-based sensors deliver accurate, real-time data via a cloud-based portal, with alerts via email, SMS and WhatsApp.



FloodAlert Bollard

Award-winning real-time flood monitoring with continuous water level measurement and alerts. Wall-mounted or buried to monitor waterways, ground and surface water. Configurable alerts enable timely intervention, with durable, low-maintenance construction for long-term deployment.



FloodAlert Drain Gully Sensor

Discrete, radar-based monitoring for drainage gulleys, identifying rising water levels, blockages and overflow events. Supports proactive maintenance, reducing flood risk, emergency call-outs and unplanned disruption.

Perimeter flood defence

Andel FloodWall

Modular flood defence barrier system providing long-term protection for buildings, plant and critical infrastructure. Designed for rapid on-site assembly, enabling flexible installation across commercial and industrial environments, including transformer and plant areas. Constructed from non-porous 100% recycled plastic, with steel-reinforced posts and engineered panels to resist the force of floodwater. Panels are securely fixed and sealed to form a continuous water barrier.

Suitable for installation on soft ground or hard surfaces, with configurations tailored through site-specific assessment. Designed and tested to BS 851188-1:2019.

Low-maintenance, easy to install, with an aesthetically sympathetic finish for integration into a wide range of environments.



Andel flood pumps

Automatic activation via conductive probes – no float switches.

Unlike many conventional flood pump systems that rely on mechanical floats prone to sticking or seizing after periods of inactivity, Andel flood pumps deliver consistent, dependable start-up when it matters most. Reliable activation, every time.



Andel FloodPump Pro

Designed for industrial and commercial applications, FloodPump Pro® provides continuous monitoring and automatic pump activation to protect buildings, plant and critical infrastructure. Suitable for internal and external installation.

Conductive probes deliver reliable activation. A stainless-steel submersible sensor unit connects to a wall-mounted control panel for system control, alerts and remote monitoring.

Supports single or dual pump operation, with integration to BMS and the ability to trigger additional automatic flood defence measures. Robust, low-maintenance design.



CellarGuard®

Automatic flood pump system for internal low points, including cellars and basements.

Uses conductive probes for reliable activation, eliminating the risk of float switch failure after periods of inactivity. Provides continuous monitoring with automatic pump operation when water is detected.

Compact, easy to install and low maintenance, with wall-mounted control and optional remote alert capability.



Andel FloodPump

Robust automatic sump pump system for internal and external applications.

Conductive probes ensure reliable operation, eliminating the risk of float switch failure after periods of inactivity. Provides continuous monitoring and automatic pump operation when water is detected.

IP68-rated pump and control unit allow installation in external environments.

Compact, easy to install and low maintenance, with wall-mounted control and optional remote alert capability.

Andel also provides a comprehensive range of flood doors, flood gates and deployable barrier systems, enabling a fully integrated approach to flood protection across buildings, plant and critical infrastructure.

A range of innovative solutions to support the complete data centre site

Flood defence

Flood risk management

Monitoring and protection at the site boundary, including perimeter barriers, water level monitoring and flood pumping, to reduce the impact of surface water and groundwater flooding.

Oil storage

Oil storage protection and pollution prevention

Containment, sealing and controlled dewatering to reduce environmental risk and support regulatory compliance, with optional filtration to achieve effectively zero hydrocarbon discharge where required.

Leak detection – basement

Water, oil and gas leak monitoring

Targeted monitoring in basement and plant areas to detect water ingress, oil leaks and gas release around critical equipment, pipework and confined voids – supporting early intervention and safe operation in high-risk environments.

Water sustainability

Mains water management

Monitoring water usage and loss from leaks to support responsible water management.

Leak detection – data halls, corridors and floor voids

Comprehensive leak detection across racks, corridors and underfloor voids, supporting modern high-density and liquid-cooled environments.

Zonal and distance-measuring detection delivers precise, rack-level visibility across extensive cable runs. A full range of sensors enables simultaneous monitoring of water, oil, process gases and refrigerants, temperature and humidity within a single integrated system.

Automatic shut-off systems can isolate water, oil or gas supplies where required, enabling rapid response and minimising risk to critical infrastructure.

Leak detection overview – control room

Centralised monitoring and response

Integrated system overview and control, providing real-time visibility and coordinated response across all leak detection and environmental monitoring systems.

Leak detection and water management – occupied areas

Water management and leak detection

Monitoring of water usage, leaks and gas across kitchens, washrooms and office areas, protecting occupants, preventing damage and maintaining safe, reliable operation.

Andel designs and manufactures environmental protection systems in the UK, supplying customers worldwide through an established network of authorised distribution partners.

From leak detection and water sustainability to pollution prevention and flood defence, our solutions are engineered for performance, reliability and integration across critical infrastructure environments.

Supported by in-house design and manufacturing, Andel delivers scalable, high-quality products with the technical guidance needed for successful deployment across global data centre sites.

For the full product range, visit www.andel.com

Andel delivers environmental protection solutions for modern data centres – supporting resilience, sustainability and operational continuity across the entire site, from the data hall to the site boundary, worldwide.

Trusted by many of the world’s leading blue-chip organisations.



LEAK DETECTION



WATER SUSTAINABILITY



OIL STORAGE MAINTENANCE & COMPLIANCE



DRAINAGE & INTERCEPTOR MAINTENANCE



FLOOD DEFENCE

UK Head Office:

Andel Ltd, Unit 1 Dodworth Business Park South,
Upper Cliffe Road, Dodworth,
Barnsley S75 3SP

For more information

call +44 (0)1484 845 000
help@andel.co.uk

See the full range of Andel products
at www.andel.com or scan the code



Offices in the Netherlands and Romania



Making water sustainable for
a cleaner and safer environment.