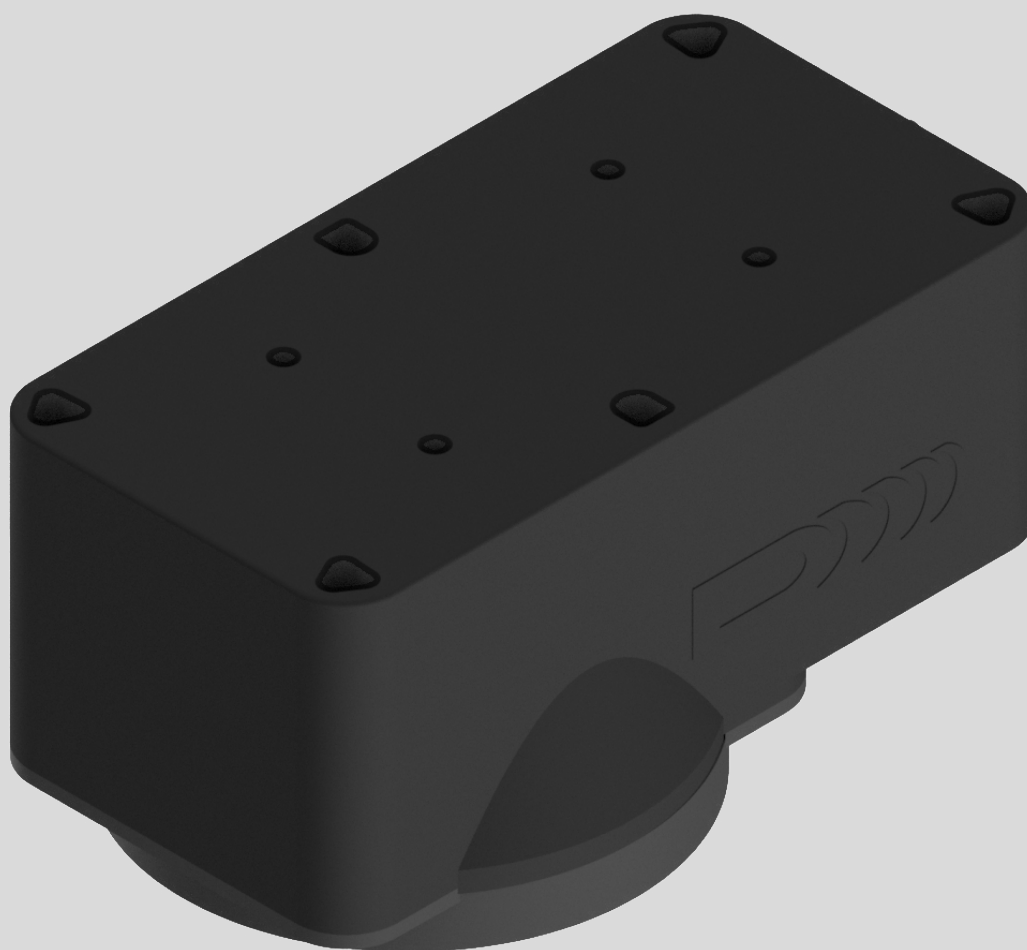


Alarm2



All-in-One Radar Level Monitoring Unit



Product datasheet



Alarm2

Accurate. Flexible. Built for Real-World Installation.

Alarm2 is a compact, high-performance remote level monitoring unit designed to deliver accurate, reliable data across a wide range of environments. Combining advanced radar sensing with flexible connectivity, it provides real-time insight in both simple and challenging installations.

With a measurement range of up to 20 m and zero deadband capability, Alarm2 captures accurate data from empty conditions through to full capacity. Its compact design, quick-install mounting system, and external antenna options make deployment straightforward, while minimising the need for complex or intrusive installation methods.

Available in LoRaWAN and Cellular versions, Alarm2 offers dependable communication in both remote and well-connected locations, supporting long-term monitoring with minimal maintenance.

Key Features and Benefits

Integrated Radar Sensor

- High-accuracy, contactless radar measurement up to 20 m, enabling installation at the top of chambers or structures and reducing the need for confined space entry.

Flexible Connectivity

- Available in LoRaWAN or Cellular versions, ensuring reliable data transmission across a range of deployment environments.

Zero Deadband Measurement

- Measures from 0 cm delivering accurate readings in empty, low-level, and rising conditions, with continuous measurement right up to the sensor.

Replaceable Battery System with Configurable Alerts

- Long-life batteries are easily replaceable in the field. Users can configure the low battery alert to trigger at a custom threshold, such as 10%, 20%, or any specified level.

Quick-Release Installation Bracket

- Tool-free removal via a quick-release system, with a pivoting bracket for accurate positioning over the measurement point.

External Antenna with Upgrade Option

- Supplied with an external antenna as standard, easily upgraded to an external antenna for improved performance in low-signal areas.

Universal Deployment

Suitable for a wide range of remote level monitoring applications, including:

- Attenuation and storage tanks
- Fire water tanks and reservoirs
- Flood monitoring at critical infrastructure (e.g. substations, utilities sites)
- Stormwater and drainage systems
- Wastewater and sewer networks
- Industrial process and holding tanks
- Surface water and environmental monitoring
- Pumping stations and wet wells
- Remote assets and hard-to-access locations

Technical Specifications

Physical	
Dimensions	160 mm(L) × 80 mm(W) × 80 mm(D) (indicative)
Weight	500 g
Enclosure Rating	IP68
Operating Temperature	-20°C to +60°C
Humidity	Up to 95% RH

Sensor	
Type	Radar-based, contactless level measurement
Range	0 cm to 20 m
Accuracy	±5 mm at 20 m. Absolute accuracy improves at shorter ranges
Repeatability	±0.2%
Resolution	±0.1%

Data Logging	
Sampling Interval	Configurable (2–15 minutes typical)
Timestamping	1-second resolution, UTC-based
Alarm Types	High/low thresholds, rate of change, profile alarms
Alarm Transmission	Immediate on state change; hourly while in alarm

Power	
Power Source	Replaceable battery pack
Battery Life	≥5 years (typical use)
Low battery alert	Configurable to customer requirements

Communications	
Supported Networks	LoRaWAN or Cellular
Antenna	External

API & Protocols	
Data Format	JSON
Access	Secure, token-based authentication
Connectivity	Supports integration with cloud platforms and SCADA systems
Endpoints	Device metadata, data retrieval, and status
Documentation	Full API documentation available on request

Interfaces	
Local Configuration	Bluetooth (BTLE) only
Data Export	CSV, Excel-compatible formats

Approvals and Compliance	
• Built to BS EN ISO 9001 quality standards in the UK • UKCA and ATEX Zone 0 certified for use in explosive atmospheres • CSANe 26ATEX1076X • IECEx CSAE 26.0024X • UKCA 26UKEX1011X	

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