

Pressure Alarm (PAL)



Real-time pressure monitoring. Compact, Smart, and Always Connected via LoRaWAN.



Product Datasheet



Pressure Alarm (PAL)

Compact pressure monitoring. Instant insight, wherever it's needed.

The Detectronic PAL is a compact, high-performance pressure monitoring device designed to deliver reliable, real-time insight across a wide range of water and wastewater environments.

Combining accurate pressure sensing, instant alerts, and low-power LoRaWAN communication, PAL provides a flexible solution for monitoring changing conditions, identifying risks early, and supporting proactive network management.

Key Features and Benefits

- **Accurate pressure sensing:** Detects subtle and rapid changes in pressure, enabling early identification of abnormal conditions such as surcharging, blockages, or system changes.
- **Real-time alerts:** Configurable thresholds trigger instant alerts when conditions deviate from normal and when they return.
- **Continuous device assurance:** Daily heartbeat confirms operational status, ensuring full confidence in every deployed unit.
- **Remote configuration:** All alarm thresholds and settings can be updated over the air, reducing site visits and operational overhead.
- **Reliable LoRaWAN connectivity:** Low-power, long-range communication ensures consistent data transmission, even in challenging environments.
- **Robust, tamper-resistant design:** Built for deployment in harsh and remote locations, with tamper detection to protect data integrity.



All-in-one sensor, battery, connectivity



Install in minutes, no complexity



Up to five years battery life



Low maintenance, reduced operating costs



Built for high-volume deployment

Flexible deployment

PAL can be deployed wherever reliable pressure monitoring is required across water and wastewater networks.

Technical Specification

Feature	Specification
Pressure Sensing	Precisely measures varying pressure levels
Communication Protocol	LoRaWAN
Alarm Type	Adjustable, Tamper-Proof, Instant Alerts
Sampling Rate	Every minute
Operating Temperature	-20°C to +60°C
Protection	IP68
Battery Life	Up to 5 years (replaceable)
Housing	100% Recycled Plastic
Dimensions	70mm (L) x 50mm (W) x 30mm (D)
Weight	450g
Approvals and Compliance	IECEX CSAE 25.0023X, CSANe 25ATEX1079X, CSAE 25UKEX1015X
Heartbeats	Daily heartbeat confirmation

Built for challenging environments

- IP68 rated for full submersion
- Wide operating temperature range
- Durable, recyclable housing

Specifications are subject to change without notice. While every effort has been made to ensure the accuracy of the information contained in this document, Detectronic assumes no responsibility for any errors or omissions. Users are advised to verify the suitability of the product for their specific application prior to purchase or installation.

