NowLog Data Point – Product Overview

Product Overview

Data Point is a long-range wireless sensor engineered for low-touch, self-install monitoring systems. As part of the NowLog architecture, it delivers reliable, autonomous sensing with minimal maintenance, while significantly **reducing total cost of ownership** across deployment, operation, and maintenance.

Why It's Different

- Designed for self-install deployment — no technician required
- Exception-based reporting reduces network traffic and extends battery life
- Up to 4-year battery operation in typical use
- In-field calibration using plug-in dongle — no device return required
- Fully integrated with NowLog edge gateway for local processing and reduced cloud dependency

Role in the NowLog System

The Data Point operates as a low-power sensing node within the NowLog system. It continuously monitors conditions locally and transmits only when required, working in conjunction with the NowLog Gateway which performs local processing, storage, and alerting. This architecture reduces cloud load, improves responsiveness, and simplifies system operation.

Key Specifications

Measurement Range:

- Temperature: -40°C to +60°C (internal), -270°C to +1000°C (external probe)
- Humidity: 0–100% RH
- Door Ajar: Internal (Light to 25 LUX), External (Reed Switch)

Accuracy:

- Temperature & humidity sensors: ±0.2°C / ±1.8% RH

Battery:
• 2 × AA batteries
• Typical lifetime: up to 4 years

Wireless:
• LoRaWAN long-range communication
• Optional Bluetooth for local access

Enclosure:
• IP66 rated (IP55 for humidity version)
• Industrial-grade housing

Commercial Advantage

Low Total Cost of Ownership
The Data Point is designed as part of a low-touch monitoring system that reduces cost across the full lifecycle:
• No technician-led installation
• Reduced cloud infrastructure through edge processing
• Long battery life minimises service visits
• In-field calibration eliminates return-to-lab costs

This enables scalable deployments without increasing operational overhead.

Low-Cost by Design
The hardware has been engineered from the outset for efficient manufacturing:
• Optimised component selection and architecture
• Minimal assembly complexity
• Standard battery format (2 × AA)
• No specialised infrastructure required

This ensures the device remains cost-effective even outside ultra-low-cost manufacturing regions.
Supply Chain Flexibility
The Data Point can be licensed for contract manufacturing with regional sourcing:
• Can be manufactured in multiple regions, including Europe and North America
• Reduces exposure to tariffs and import constraints
• Enables use of local box-build manufacturing partners
• Shortens supply chains and improves responsiveness

This provides resilience and cost control in changing global trade conditions.