

CONTAINER, CHASSIS, AND TRAILER TRACKING

ASSET TRACKING

Asset Monitor

Rugged, Long-Life Multi-Sensor for Comprehensive Remote Visibility and Intelligent Monitoring

The **Asset Monitor** is a factory-sealed, IP69K-rated, wireless multi-sensor for harsh environments where product and asset status is critical. It includes an accelerometer for impact/motion triggering and reporting, a magnetic sensor for door status, temperature sensing for logging and reporting, and serves as a wireless tag for identification and presence reporting.

Rugged design and long battery life make the Asset Monitor ideal for scenarios requiring critical real-time status visibility and reliable data logging. Whether it's monitoring door status to reduce theft, ensuring food safety by monitoring temperature to reduce loss, tracking high-value equipment, or measuring loading cycle times to improve efficiency, the Asset Monitor provides economical and highly reliable real-time notifications and historical data.

The Asset Monitor features configurable sampling and transmission rates based on motion and temperature triggers. Operation can be configured for sensor efficiency and longevity across scenarios. Accelerated operation activates with motion or upon exceeding a temperature threshold, then moderates when stationary and/or in normal temperature range.

2.4 GHz wireless operation ensures seamless communications with Powerfleet's Gateway products and other compatible hubs, including smartphones, tablets, and OEM hubs.

When paired with Powerfleet's Gateways, the Asset Monitor delivers real-time reporting.

This data feeds into Unity, our SaaS-based fleet intelligence platform, which ingests, processes, and consolidates data from every asset, vehicle, and person.

Through advanced data intelligence, Unity unifies business operations, providing on-the-fly alert notifications that enable you to take proactive actions when necessary.

Key features



Real-time monitoring and logging of:
Door Open/Close | Temperature | Motion/Impact |
Tag Presence



Independent sample and broadcast configuration



Up to ~5-year maintenance free operation (depending
on activity)



Rugged enclosure for high impact areas (including
sunlight and chemical protection)



Tractor/Trailer matching (with the Logistics Gateway)



Advanced inventory management for heavy
equipment using motion pattern correlation
("Virtual Gate")



Asset presence/absence alerts for lost or
unattended items



IP69K construction (protected against close-range
high-pressure water, high-temperature water
spray downs)



Designed to Revolutionise Your Operations

The **Asset Monitor** provides transformative
monitoring capabilities designed to revolutionise
your operations:



Gain a detailed understanding of asset
statuses and environments



Early issue identification & resolution



Ensure asset visibility



Avoid asset loss



Drive continuous improvement



Increase productivity



Shrink operating costs



Mitigate liability



Bypass compliance pitfalls



Increase customer satisfaction



Technical Specifications

BLE

BLE Technology	BLE 5.3 /2.4GHz. by Nordic nRF52833
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Power

Internal Battery	3.6V Lithium-Thionyl Chloride, AA size, 2500mAh
Consumption	75uA at Temperature sampling and transmitting every 1 min

Environmental

Temp, operation	3-40°C to +85°C (Depending on battery type)
Temp, storage	-40°C to +85°C (Depending on battery type)
Ingress Protection	IP69K
Vibration, Impact	Shock resistance according to EN 60068-2-27 Vibration according to EN 12830
Power transients	IP69K

Environmental

Certifications	FCC, CE
Regional	EN 13485 - Temperature recorders for transporting, storing, and distributing chilled, frozen, deep-frozen/quick-frozen food and ice cream. Tests performance and suitability. Response time: maximum 5 min. Class 0,2: $\pm 0,2^{\circ}\text{C}$ Suitability for storage (S) and/or transport (T);

Data Retention

Memory	Up to 3,000 Temp Samples
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Technical Specifications (cont'd)

Size

Dimensions	111 × 46.3 × 28.6 mm (L x W x H)
Weight	90 gr

Installation

Mounting	Nylon/metal tie-wraps, 2 screws and/or two-sided adhesive
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Features

Movement	3D, ±2g/±8g range, 12 Bit representation, 1mg/4mg resolution <ul style="list-style-type: none">• Vibration sensing with programmable threshold• Free-fall sensing with programmable threshold• Impact sensing with threshold up to 8g
Temperature Sensor	Operating range: -40°C to 85°C Accuracy (°C): -40°C to 0°C; TYP ±0.1°C; MAX ±0.3°C 0°C to 50°C; TYP ±0.1°C; MAX ±0.2°C 50°C to 85°C; TYP ±0.1°C; MAX ±0.3°C Resolution: 0.1°
Magnetic Sensor (for open/close door or window detection etc.)	10-30mm range an optionally provided magnet. Used to detect door open/closed and/or power "On"/"Off"

Powerfleet (Nasdaq: PWFL; JSE: PWR; TASE: PWFL) is a global leader in the artificial intelligence of things (AIoT) software-as-a-service (SaaS) mobile asset industry. With more than 30 years of experience, Powerfleet unifies business operations through the ingestion, harmonisation, and integration of data, irrespective of source, and delivers actionable insights to help companies save lives, time, and money. Powerfleet's ethos transcends our data ecosystem and commitment to innovation; our people-centric approach empowers our customers to realise impactful and sustained business improvement. The company is headquartered in New Jersey, United States, with offices around the globe. Explore more at www.powerfleet.com.