

PLASMON CATALOG



www.plasmon.io



15+ Years

Industry Experience

20+ Sensor

Support

7/24

Monitoring & Alerting

20+ Industry

Application

Plasmon Ambient devices

measure temperature, humidity, and other environmental parameters 24/7 uninterruptedly in warehouse, production area, cold room, and transport processes. It does not only monitor, but also warns and intervenes.

Data transfer to the cloud every 5 seconds. The fastest monitoring infrastructure in the market.



4 Hours Smart Data Storage

Even if internet/electricity is cut, data is not lost. When connection arrives, past + instant data is transmitted.



Interruption Notification

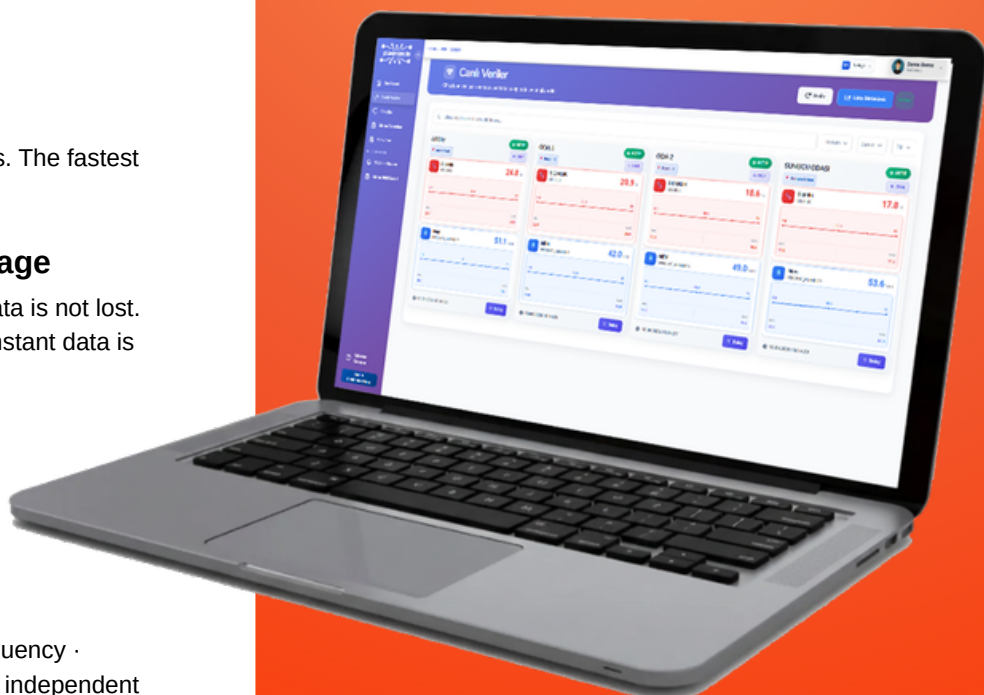
Sends automatic notification instantly to authorities when electricity/internet is cut.



3-Level Alarm Setting

Measurement period · Control frequency · Notification frequency are all three independent of each other.

As an IoT (Internet of Things) platform, Plasmon monitors the environmental conditions of products at every stage from production to storage, logistics to supply chain, instantly notifies deviations, and provides detailed reports. Thanks to its single-product-based monitoring feature, you can transparently see where each product is located and under which conditions.



Secure and Proven Reporting

- All data is recorded with timestamp
- Reports are verified with e-signature and gain legal validity
- Generated PDF reports are of an unalterable and non-manipulable structure
- Each record is stored with a traceable (audit trail) infrastructure
- Offers ready, reliable, and standard-compliant reporting for inspection and audit processes
- Provides proof-grade archiving for critical data



Supported Sensors

Temperature	-40°C to +85°C	Cold Storage, Kitchen, Pharmaceutical Shelf, Transport
Humidity	%0 – %100 RH	Food Storage, Textile, Packaging
CO ₂	400 – 5000 ppm	Barn Air Quality, Kitchen, Indoor Area
Particulate Matter (PM2.5/PM10)	0,3 – 10 µm	Cleanroom, Pharmaceutical Production, HORECA
Water Leakage	Liquid Contact Detection	Warehouse Floor, Refrigeration Systems
Thermocouple	-200°C to +1300°C	Industrial Oven, High-Temperature Process

Notification Options



E-Posta



SMS



Uygulama (Push)

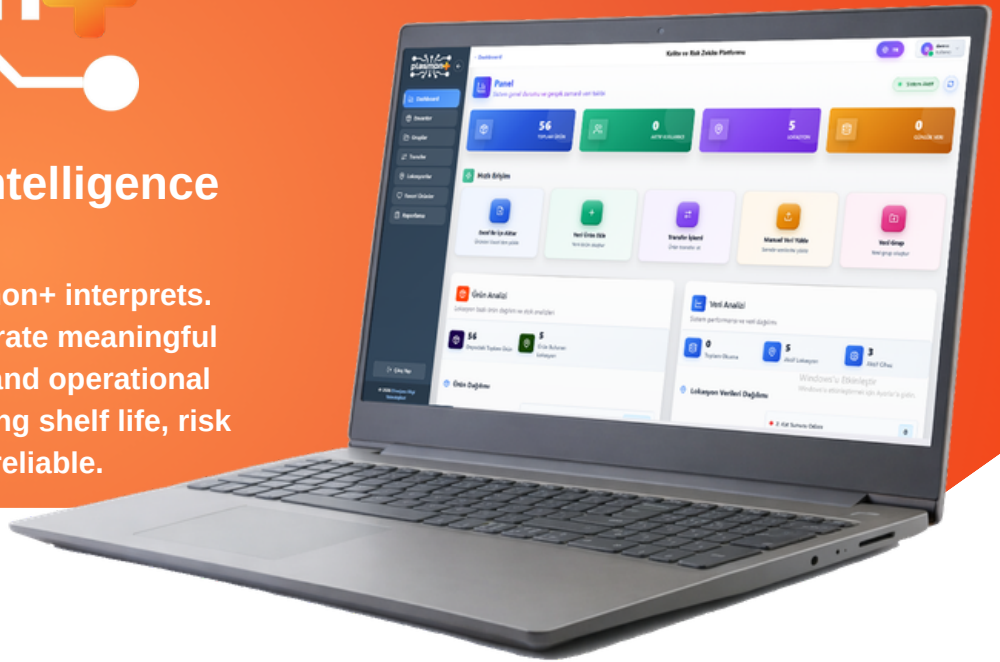


Telegram

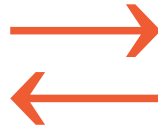


Quality and Risk Intelligence Platform

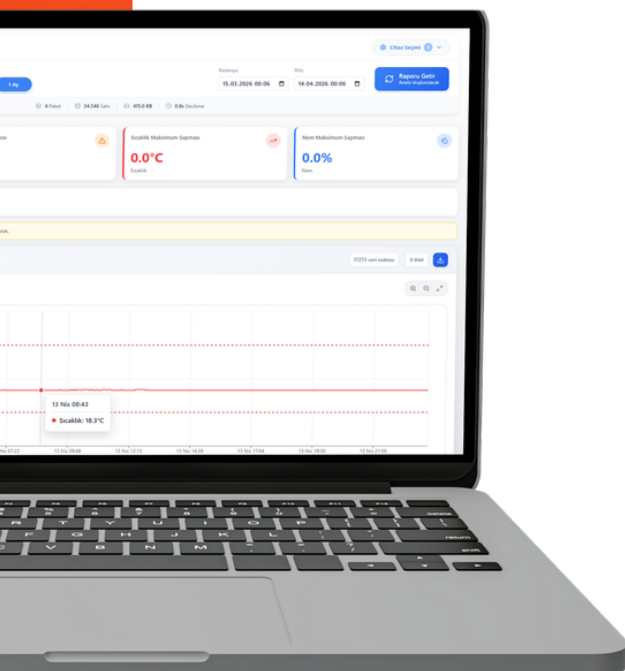
Plasmon measures — Plasmon+ interprets. Processing IoT data to generate meaningful insights on product quality and operational risks. Quality score, remaining shelf life, risk level — automated, instant, reliable.



An IoT platform collecting environmental data such as temperature, humidity, and CO₂.



The intelligence layer processing this data to calculate its impact on product quality and operational outcomes.



QUALITY SCORE

Real-time quality score for every product batch. Calculated including packaging, environmental conditions, and duration.

REMAINING SHELF LIFE

Dynamic calculation: expected spoilage time based on real data, not a static label.

RISK LEVEL

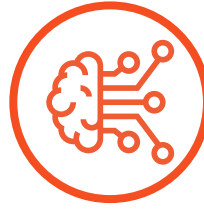
Low / Medium / High — a clear signal for prioritization. Eliminates unnecessary alerts.

A Deviation Is Data — Its Impact Is Intelligence



TRADITIONAL ALERTS

Generates an alarm the moment a threshold is exceeded. However, not every deviation has the same impact on quality. Unnecessary alerts cause operational noise.



Plasmon+ Intelligence

Accounts for the duration and frequency of deviations. Analyzes the actual impact on product quality and risk. Less noise, clearer decisions.

Packaging Condition + Operational Context = Accurate Risk



RISK IMPACT: LOW
Packaging: In Box
Operation: Storage



RISK IMPACT: MEDIUM
Packaging: Open
Operation: Loading/Unloading



RISK IMPACT: HIGH
Packaging: Open / Partial
Operation: Logistics

Data Source Flexibility

Plasmon+ does not rely solely on its own IoT devices; it seamlessly ingests data from diverse sources including shipment dataloggers, legacy sensor infrastructures, and manual uploads (e.g., Excel). Your existing investments remain protected.



HVAC Savings



Out-of-Stock Reduction



Downtime Reduction



Efficiency Increase



Mobility Layer — Handheld Terminal & Field Management

Plasmon Go is the handheld terminal and mobile app solution designed for everyone in the field—from warehouse operators to dispatch teams. Scan barcodes, access product records, document transfers.



Plug and Play. Same-Day Operational.
No separate WMS or ERP installation required.



Barcode Scanning → Product Record

- Lot number and expiration date
- Storage conditions and batch information
- Real-time environmental compliance check
- Supplier and source information



Location Transfer Management

- Conditions are recorded at the exact moment of delivery
- Who handed over — who received: signed record
- Chain of custody is never broken
- Real-time synchronization with Plasmon+

Other Solutions

Requires complex WMS/ERP integration. Implementation takes weeks, sometimes months. IT investment is mandatory.

Plasmon GO

Scan barcode, create location, start monitoring. Same-day operational. No IT infrastructure required.

Our Devices & Features

Standard Kit

- ▶ Cloud connectivity via WiFi
- ▶ Real-time value display via LED screen
- ▶ Supports up to 5 sensors
- ▶ Up to 4 hours of battery backup
- ▶ Plug-and-play easy setup



Industrial Kit

- ▶ Cloud connectivity via WiFi
- ▶ Supports up to 5 sensors
- ▶ 12V Adapter
- ▶ IP67 water/dustproof enclosure
- ▶ Up to 4 hours of battery backup
- ▶ Durable structure down to -40°C
- ▶ 1,200m wired sensor connection
- ▶ GSM Module, SD Card & GPS



Trigger Device

- ▶ Cloud connectivity via WiFi
- ▶ 8-channel 5V trigger output
- ▶ 5V Adapter
- ▶ HVAC / fan / alarm automation
- ▶ Up to 4 hours of battery backup
- ▶ Human-independent intervention



Industry Application Areas

The Plasmon ecosystem features a flexible architecture that adapts to the specific needs and processes of different industries.



Food & Beverage

Cold storage rooms, blast freezers, food processing areas, large retail warehouses, HORECA.



Pharmaceuticals & Healthcare

GMP/GDP-compliant warehouses, vaccine storage, stability chambers, hospital and pharmacy chains.



Logistics & Warehousing

Standard warehouses, cold chain transport, sensitive product transfer zones, refrigerated vehicles.



Agriculture & Livestock

Livestock farms, feed and medicine storage, incubation facilities, veterinary clinics, greenhouse climate control.



Chemicals & Industrial

Raw material and finished goods warehouses, quality control labs, OHS-compliant production areas.



Energy & Technical Infrastructure

Generator rooms, transformer substations, battery rooms, critical IT server rooms.

Diverjans

Our Certificates





Diverjans



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