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INDUSTRIAL IOT MONITORING SYSTEM

Wireless sensors, local gateway and web platform for monitoring industrial equipment.

- Motors, conveyor systems, sorters, critical zones
- Vibration, temperature, current, RPM, digital events
- Local gateway and online dashboard
- Configurable for battery, external power or mixed deployments

PRODUCT SHEET

DASSTEC

MAY 2026



Industrial monitoring on conveyor systems and motors.

AnySensor at a glance

SENSOR NODES

fixed equipment monitoring

SENSORS CONFIGURED FOR THE APPLICATION.

GATEWAY

local collection and platform connection

INDUSTRIAL RECEIVER FOR NODES.

COMMUNICATION

industrial sub-GHz wireless / LoRa

INDUSTRIAL NODE-GATEWAY TELEMETRY.

POWER

battery / external / mixed

SELECTED BY APPLICATION AND PROFILE.

SIGNALS

vibration, temperature, current, RPM, digital

SENSORS CONFIGURED ON EQUIPMENT.

PLATFORM

dashboard, history, alerts, reports

VISIBILITY FOR MAINTENANCE AND OPERATIONS.

AUTONOMY

sized by profile

CALCULATED FROM SAMPLING, RADIO AND SENSORS.

INSTALLATION

configured for the application

MOUNTING AND SIZING BY SITE.

From equipment to platform

01

Sensor nodes

vibration, temperature, current, RPM/speed, digital events

02

Wireless link

industrial telemetry to gateway, RF profile configured for the application

03

AnySensor Gateway

local receiver, configurable buffering, backhaul to platform

04

Backhaul

Ethernet / Wi-Fi / cellular, adapted to existing infrastructure

05

AnySensor Platform

dashboards, history, thresholds, alerts, reports and indicators



Dasstec industrial product: electronics, enclosures and integration.

The final configuration is set according to the application, infrastructure and RF environment.

AnySensor Node + Gateway



AnySensor Node

Fixed node installed on or near equipment for industrial signal collection.

PARAMETRU
ROLE
SPECIFICATIE

fixed equipment monitoring

PARAMETRU
COMMUNICATION
SPECIFICATIE

wireless to gateway

PARAMETRU
POWER
SPECIFICATIE

battery, external power or mixed configuration

PARAMETRU
SENSORS
SPECIFICATIE

configured for the client application

PARAMETRU
SAMPLING
SPECIFICATIE

periodic, event-based or burst

PARAMETRU
MOUNTING
SPECIFICATIE

magnetic, screw, bracket or custom solution

PARAMETRU
ENCLOSURE
SPECIFICATIE

industrial, adapted to the operating environment

PARAMETRU
DEVICE IDENTITY
SPECIFICATIE

node associated in gateway and platform



Local gateway with backhaul and industrial power.

AnySensor Gateway

Local gateway for collecting node data and transmitting it to the platform.

PARAMETRU
ROLE
SPECIFICATIE

data collection from AnySensor nodes

PARAMETRU
RADIO
SPECIFICATIE

industrial radio for telemetry

PARAMETRU
BACKHAUL
SPECIFICATIE

Ethernet, Wi-Fi or cellular

PARAMETRU
POWER
SPECIFICATIE

industrial supply, cabinet or mains

PARAMETRU
NODE CAPACITY
SPECIFICATIE

**sized by transmission interval, payload
and RF environment**

PARAMETRU
LOCAL BUFFERING
SPECIFICATIE

**configurable spool for platform
transmission**

PARAMETRU
INSTALLATION
SPECIFICATIE

**electrical cabinet, technical area or near
the system**

Sensor and signal options



PARAMETRU

Vibration

SPECIFICATIE

imbalance, bearing wear, shocks, abnormal vibration

DETAIL

motor housing, bearing area, roller assembly

PARAMETRU

Temperature

SPECIFICATIE

overheating, friction, abnormal load

DETAIL

motor, bearing, cabinet, contact surface

PARAMETRU

Current

SPECIFICATIE

increased load, blockage, abnormal consumption

DETAIL

motor feed, electrical panel, CT/Hall sensor

PARAMETRU

RPM / speed

SPECIFICATIE

speed variation, slip, stops

DETAIL

shaft, roller, drive, encoder point

PARAMETRU

Digital events

SPECIFICATIE

running/stopped, alarm, sensor state, contact

DETAIL

panel, relay, PLC signal, digital input

PARAMETRU

Runtime / status

SPECIFICATIE

runtime, cycles, starts/stops

DETAIL

derived from digital, current or PLC signal

PARAMETRU

Audio / noise

SPECIFICATIE

abnormal mechanical noise, acoustic changes

DETAIL

near equipment, protected mount

PARAMETRU

Distance / proximity

SPECIFICATIE

object presence, product pass, relative position

DETAIL

conveyor system area, guide, equipment input/output

PARAMETRU

Pressure / pneumatic

SPECIFICATIE

pressure loss, incorrect pneumatic mode

DETAIL

air line, distributor, pneumatic cabinet

PARAMETRU

Industrial analog input

SPECIFICATIE

existing 0-10V / 4-20mA signals

DETAIL

cabinet, existing sensor, signal interface

PARAMETRU

Voltage / supply

SPECIFICATIE

voltage drop, brownout, unstable supply

DETAIL

equipment supply, cabinet, local source

PARAMETRU

Humidity / environment

SPECIFICATIE

ambient conditions relevant to equipment

DETAIL

cabinet, technical area, near equipment

Battery autonomy simulator

Low-duty

Standard monitoring

Vibration burst

Event-based

External powered

indicative profile for battery and slow trends

Main settings

Battery capacity

2,200 mAh



2200

TRANSMISSION INTERVAL

15s

30s

60s

5 min

15 min

SAMPLING INTERVAL

1s

10s

60s

5 min

15 min

SENSORS

vibration / accelerometer

ENABLED

temperature

ENABLED

current sensor

OFF

RPM / encoder input

OFF

digital input

OFF

audio / noise

OFF

distance / proximity

OFF

pressure / pneumatic

OFF

industrial analog input

OFF

voltage / supply monitor

OFF

humidity / environment

OFF

► Advanced settings

ESTIMATED AUTONOMY

>60 months

2,491 days, indicative

AVERAGE CURRENT

0.037 mA

ESTIMATED DAYS

2,491

RADIO

61%

SENSORS

6%

SLEEP

27%

CAPACITY

2,200 mAh

SAMPLES / DAY

288

TRANSMISSIONS / DAY

96

MAH / DAY

0.88

SAMPLES / MAH

326.1

profil potrivit pentru baterie

Theoretical estimate; check real parameters.

Profile: Low-duty; battery 2200 mAh; TX every 900s; sampling every 300s; average current 0.037 mA; indicative autonomy >60 months.

The simulator helps choose the right profile for battery or external power.

Power and autonomy interpretation

Low-duty battery

Infrequent sampling, rare transmissions and short sensor activity. Suitable for high autonomy.

Standard monitoring

Multiple signals and regular transmission for equipment where operational visibility matters.

Intensive sampling

Frequent captures, bursts or longer sensor activity. External power is recommended.

Communication and gateway sizing

Communication

Node -> Gateway

industrial sub-GHz wireless / LoRa

[link for industrial node-gateway telemetry](#)

Gateway -> Platform

Ethernet / Wi-Fi / cellular

adapted to site infrastructure

Local integration

digital, analog or PLC signals

existing signal intake where available

Data model

signals, events, timestamp, device identity

structure used for history, alerts and reports

Gateway sizing

15s transmission

low

for critical assets

60s transmission

medium

typical monitoring profile

5-15 min transmission

high

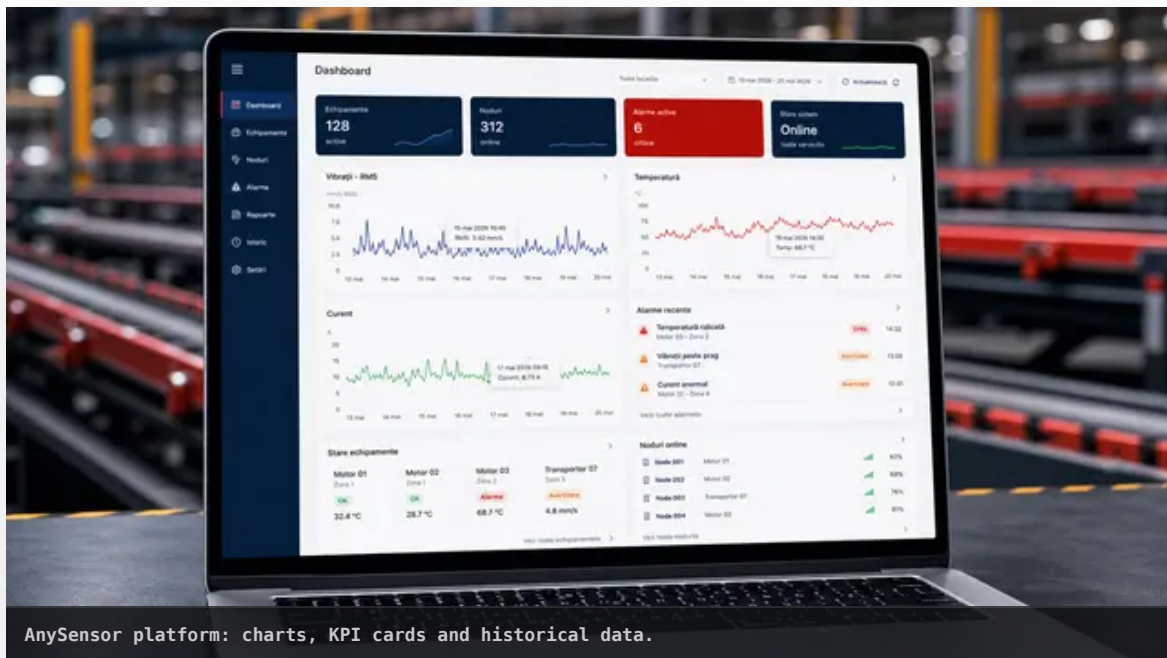
good profile for battery nodes

Event-based

variable

depends on event rate

Platform and capabilities



- + technical visibility over equipment without replacing existing systems
- + signal history for diagnostics and comparison between zones
- + prioritised interventions based on data, not only manual inspections
- + phased rollout from critical zones to wider coverage
- + foundation for maintenance indicators and historical analysis

Commercial structure

AnySensor Start

INCLUDES

selected fixed nodes, local gateway

SOFTWARE

initial dashboard, signal history

SERVICES

equipment mapping, sampling profile, technical report

RECOMMENDED FOR

defining the configuration for expansion

AnySensor Fixed Monitoring

INCLUDES

fixed sensor nodes, gateways

SOFTWARE

dashboards, thresholds, reports

SERVICES

signal configuration and maintenance insights

RECOMMENDED FOR

permanent monitoring on critical equipment

AnySensor Platform

INCLUDES

hardware sized separately

SOFTWARE

dashboards, data history, rules, reports, user access

SERVICES

operational configuration and reporting

RECOMMENDED FOR

software visibility and operational reporting

AnySensor Integration

INCLUDES

sensor/gateway selection by site

SOFTWARE

API/export/specific configurations

SERVICES

equipment mapping, installation support, dashboards/reports

RECOMMENDED FOR

implementation and customization

10 / CHECKLIST

What we define before quoting

Checklist for commercial and technical client discussions.

- + **Critical equipment** motors, conveyor systems, sorters, critical zones
- + **Measurement points** approximate number and location on equipment
- + **Required signals** vibration, temperature, current, RPM, digital, analog
- + **Power** battery, external or mixed
- + **Network infrastructure** Ethernet, Wi-Fi, cellular or isolated
- + **Sampling profile** low-duty, standard, burst or event-based
- + **Thresholds and alerts** rules, notifications, prioritisation
- + **Dashboards** equipment, zones, signals, reports
- + **Reporting** history, export, derived indicators
- + **Mounting constraints** environment, access, safety, enclosure

Technical discussion / offer

Dasstec / AnySensor contact

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Send email

Download PDF

Dasstec / AnySensor

Industrial IoT system for fixed equipment monitoring, wireless sensors, gateway and platform.

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The final configuration is set after reviewing the application and existing infrastructure.