



Monitor, analyse and control

Machinery,
equipment &
devices
with IoT

Low cost, highly reliable, truly plug and play

DK Sense Product Description

DK Sense: Real-time Plant Performance, Predictive Maintenance, and Overall Equipment Efficiency (OEE)

Stay connected to your plants and equipment, no matter where you are. DK Sense provides real-time insights into plant performance, predictive maintenance, and calculates Overall Equipment Efficiency (OEE) to optimize your operations. Whether you're monitoring motors, pumps, or entire production systems, DK Sense ensures your facility operates with clockwork precision.

What DK Sense Does?



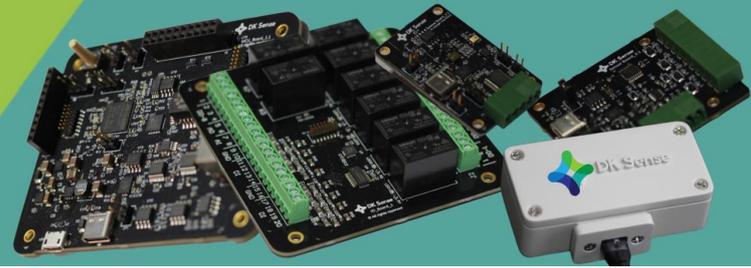
DK Sense integrates your field devices (IoT), equipment (e.g., mixers, motors, pumps), and systems (CRM, ERP, PLC, SCADA) into a synchronized, automated workflow. This solution is designed for industries such as manufacturing, food processing, healthcare, mining, water management and stone quarries, ensuring your critical assets consistently perform at their best. With its built-in OEE calculation capabilities, DK Sense helps you measure and improve overall operational efficiency.

Solving the Disjointed System Challenge

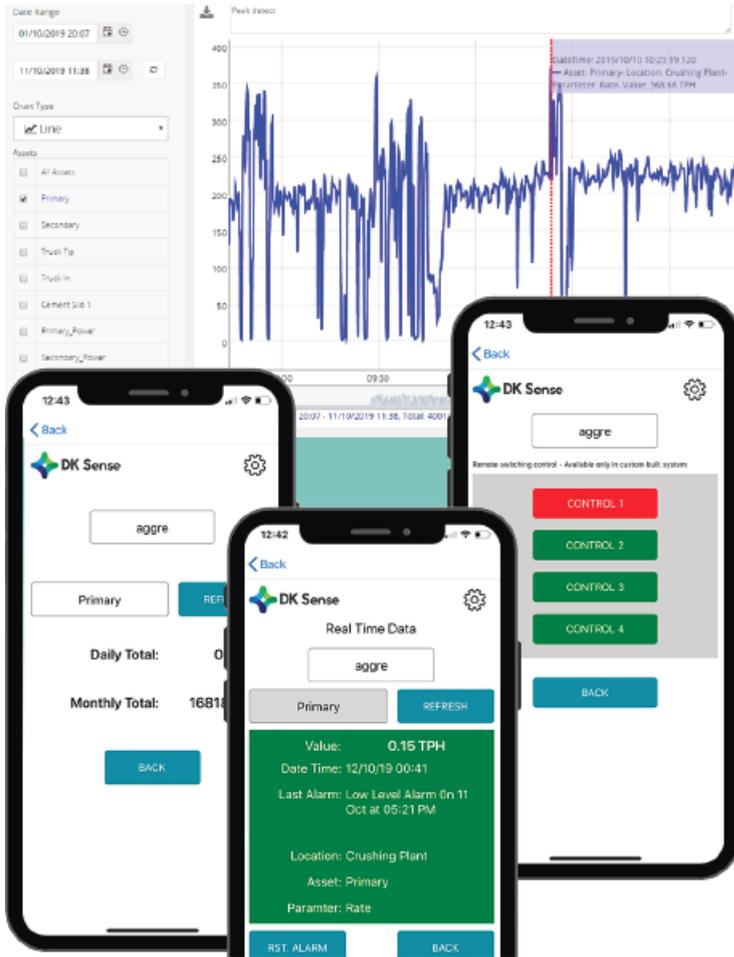


Many organizations suffer from disconnected systems, leading to manual processes, delays, and human errors. DK Sense bridges these gaps by creating a unified platform that connects devices, equipment, and systems, automating communication, reducing manual intervention, and minimizing errors. The system ensures

smooth, coordinated operations, eliminating inefficiencies across your plant.



Key Benefits of DK Sense



Monitor Asset Performance

Track your critical assets in real-time. DK Sense delivers live updates on equipment health, predicts potential failures, and triggers automatic or manual actions as needed.

Real-time Production Insights

Access live data on production volumes, material levels, and other key metrics. Automate processes such as reordering through ERP systems or manually intervene when necessary.

Overall Equipment Efficiency (OEE) Calculation

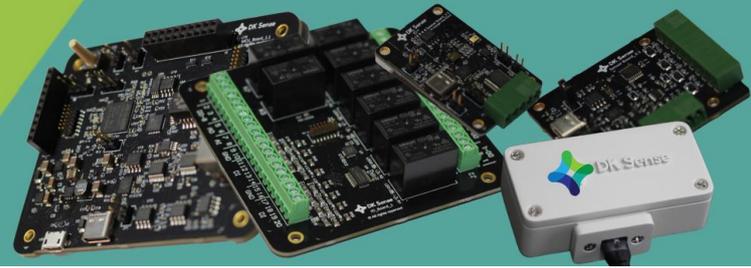
DK Sense automatically calculates and tracks your plant's OEE, offering actionable insights to improve productivity, availability, and quality, helping you make informed decisions.

Cost-effective Modernization

Upgrade your systems without the need for expensive CRM or ERP overhauls. DK Sense modernizes your plant operations while preserving existing infrastructure.

Enhanced Product Strengths

DK Sense stands out with its advanced remote capabilities, enabling management and support from any location:



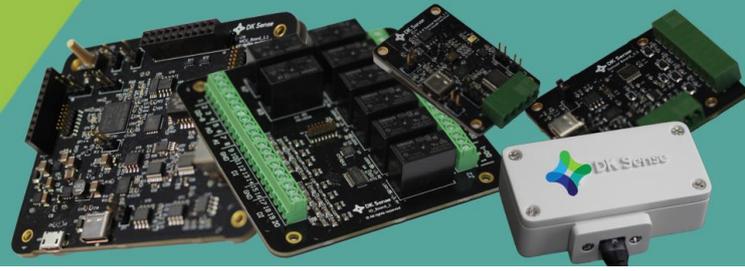
Asset Configuration

Asset	Location	Parameter	Unit	Zero	Span	Alarm Hl	Alarm hl
Silo-1	Plant-1	Depth	mm	0	125	2	999.99
ch2 - 456	Adelaide	Voltage	V	0	110	2	999.99
ch3 - xyz	BiolerRoom	Current	A	0	120	2	999.99
x - 10	Tunnel	Speed	rpm	0	130	2	999.99
x - 11	Factory	Voltage	V	0	140	2	999.99
x - 13	Factory-1	Temperature	Deg. C	0	150	2	999.99
x-0017	Plant	Temperature	Deg. C	0	160	2	999.99
x-12345	Tunnel	CO	ppm	0	170	2	999.99

- **Remote Configurability:** Configure devices and systems remotely, adapting to changes without requiring on-site intervention.
- **Remote Firmware Upgrades:** Deploy firmware updates across devices from anywhere, ensuring your systems are always up-to-date with the latest features and security patches.
- **Remote Product Support:** Receive real-time remote support for your devices and systems, reducing downtime and eliminating the need for on-site technicians.
- **M2M Communication:** Enable machine-to-machine communication, allowing your devices to interact autonomously, enhancing operational efficiency and coordination.

Multi-functionality and Security

- **Audio/Video Integration:** Built-in audio and video capabilities allow DK Sense to monitor not only data but also provide real-time visual feedback, making it ideal for complex operations.
- **Data Security:** DK Sense ensures the highest level of data security through encryption and access control, safeguarding your operational data against unauthorized access.
- **Data Storage & Portability:** Flexible storage options allow you to securely access, store, and transport data across multiple locations.



IoT Cloud Connectivity

Link multiple assets across locations through the DK Sense IoT cloud gateway for live monitoring and trend analysis. Leverage Artificial Intelligence (AI) and Machine Learning (ML) to predict equipment failures, optimize maintenance schedules, and prevent unplanned downtime.

Flexible Data Sampling

DK Sense can measure any operational parameter at intervals ranging from 1 second to 1 day, providing maximum flexibility to suit your specific monitoring requirements.

Comprehensive Data Analytics

Analyse time-stamped data through intuitive trend graphs and pie charts. These analytics are accessible through any web browser, allowing you to make data-driven decisions to optimize plant performance.

Live Data Monitoring & Alerts

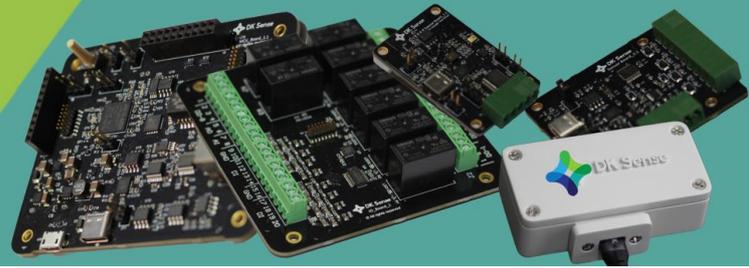
Monitor live data via the DK Sense mobile app and receive instant push notifications when alarm conditions are triggered. This real-time alerting ensures timely intervention to prevent potential issues.

Additional Mobile App Features

1. **Critical Event Recording:** Operators can record critical events, failures, and observations directly through the DK Sense mobile app. This feature enables real-time reporting and tracking of key issues, ensuring faster resolution and detailed event logs for future analysis.
2. **Multi-Asset Access:** Manage multiple assets from a single DK Sense mobile app. This allows operators and managers to oversee various assets in different locations seamlessly, all from one interface, improving convenience and operational efficiency.

Summary

DK Sense gives you full control over your plant's performance, integrating real-time monitoring, predictive maintenance, and OEE calculation into one powerful platform. With remote configurability, M2M communication, and advanced data analytics, DK Sense empowers you to drive operational efficiency,



prevent downtime, and maximize productivity. The enhanced mobile app features further increase flexibility, making it easier than ever for operators to manage and optimize operations on the go.

About DK Sense

Established in 2018, DK Sense is developing and implementing IoT based systems industrial monitoring, analysis and control. Over the years, DK Sense has evolved a low cost, highly reliable, plug and play system that can be easily deployed in various industries such as manufacturing, material processing, healthcare, facilities management, water management (allocations etc.)

Contact us today for further information and free trial.

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