dafo
fire & safety equipment

Dafo ConneXion

Smart fire protection with sensor-based monitoring

Real-time monitoring

with Dafo ConneXion

The new, smart, future-proof fire protection solution

Welcome to the next generation of fire safety with a fully connected and intelligent fire protection system. Built on advanced IoT technology, Dafo ConneXion gives you full control and ensures that your safety equipment is always operational when it truly matters.

Smart sensors continuously monitor the condition and functionality of fire extinguishers, emergency lighting, and smoke vents. You receive real-time status updates – quickly and reliably.

COMMUNICATION

Communication is carried out via the internet and smart hubs using SIM cards. The sensors communicate over the reliable 868 MHz frequency band and are also prepared for LoRa technology.

All information is securely stored in the cloud via Dafo ConneXion, SBA aXess, or your own system-making monitoring and reporting simple and efficient.

With the intuitive mobile app or control panel, you can easily check system status, receive instant alerts, and keep track of your connected devices – no matter where you are. Each device is also equipped with an NFC tag for quick identification and smooth installation.

THE HUB
A core component of the intelligent infrastructure that makes fire protection equipment accessible via service panels, monitoring systems, alarm notifications, service applications, and third-party integrations. Supports multiple radio protocols and configurations. Signal range can be extended with a repeater.

SENSOR FOR EMERGENCY LIGHTING
Real-time monitoring of emergency lighting fixtures where sensors quickly identify faults and deviations, ensuring high operational reliability.

SENSOR FOR SMOKE VENTS
A sensor for monitoring the status of smoke vents, compatible with most hatch models. Monitors the environment and reports temperature, humidity, and the angle of the vent frame. Sends notifications and alarms if the vent is open, exceeds time limits, or during opening and closing events.

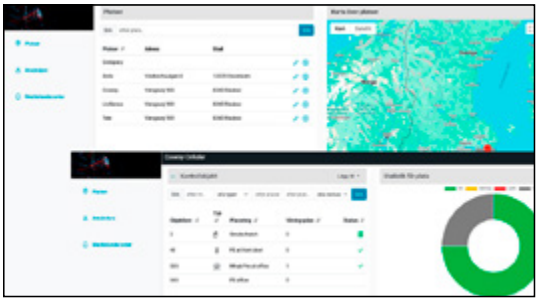
FIRE EXTINGUISHER SENSOR
The wireless digital sensor is designed to monitor the readiness and availability of portable fire extinguishers. It provides real-time alerts and analysis of extinguisher pressure, environmental conditions, and any obstructions. The sensor can be configured for LoRa technology for long range and high security within buildings.

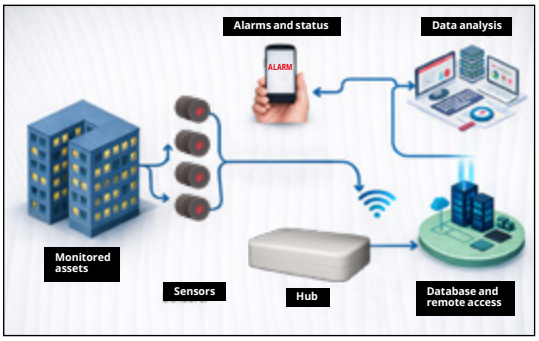
EVENT DATA
The system enables monitoring of product functionality, including fault indications and blockages, temperature readings, signal strength within the network, and battery status.

TIMELINE DATA
Graphs and raw data for early warning: weight, temperature, humidity, angle.

SYSTEM DATA
Status, signal strength, logs.

INSTALLATION
With simple installation, battery operation, and wireless communication, the system can be deployed quickly and smoothly – without time-consuming cabling or modifications to existing environments.





Why more and more choose IoT-based fire protection

Traditional fire protection solutions often rely on manual inspections carried out at regular intervals – sometimes months apart or as infrequently as once per year.

With IoT technology, this changes fundamentally. Connected systems enable continuously monitored fire protection where smart solutions collect real-time data around the clock. Inspections can be carried out digitally at any time, and integration with building management systems creates a more comprehensive safety solution. Any faults are detected immediately when they occur – rather than at the next scheduled inspection.

Connected fire protection also enables predictive maintenance, faster response times, and a higher degree of automation compared to traditional, schedule-based inspections.

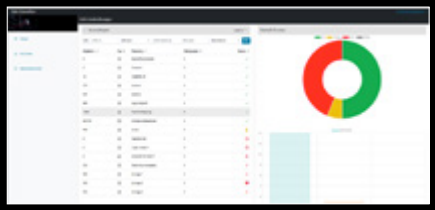
Dafo ConneXion

Fire extinguishers connected 24/7

Emergency lighting connected 24/7

Smoke vents connected 24/7

Wireless connection to the cloud service via gateway/hub



Web application for monitoring assets, managing user permissions, and notifications

Mobile app for Android and iPhone available free of charge

Operational reliability

Security with encrypted data

Operational Reliability – The system uses a stable internet connection via mobile networks or building networks, and all data communication is encrypted. The solution is designed for high reliability and can be managed via established system providers.

Data – All data is owned by the customer and can be exported when needed. This provides full control over information and ensures system transparency.

Sustainable Protection

- No replacement of existing fire extinguishers – saves materials and reduces CO_2 emissions
- Reduced travel thanks to remote monitoring
- More efficient monitoring through integration with building management systems
- Digital inspections – fast and efficient
- Long-term resource efficiency and support for the circular economy

The future of fire protection

IoT-based fire protection offers financial, operational, and strategic advantages for property owners and businesses. Here are the key benefits:

1. Increased safety and reduced risk

- 24/7 real-time monitoring – faults, tampering, or deviations are detected immediately
- Faster alarm handling – digital notifications enable immediate action
- Reduced risk of operational disruptions and damage through early detection

Result: Lower risk of extensive damage and safer properties for tenants.

2. Lower long-term costs

- Fewer manual inspections – reduced labor costs
- Predictive approach – actions taken immediately when faults occur, reducing costly emergency interventions
- Fewer site visits thanks to remote monitoring

Result: Better cost control, increased profitability, and time savings.

3. Efficient management of multiple properties

- Centralized overview of fire protection installations across the entire property portfolio
- Scalable system – from a single building to hundreds
- Standardized processes and digital documentation

Result: Simplified administration and improved control over fire protection systems.

4. Integration with building managements ystems

- Can be connected to existing property and management systems
- Fire protection becomes part of the overall property strategy
- Consolidated data enables smarter decision-making

Result: More efficient management and stronger decision support.

5. Improved documentation and compliance

- Digital logging of inspections and events
- Easy data export for inspections or audits
- Reduced risk of documentation gaps

Result: Smoother compliance and increased peace of mind.

Sustainable fire protection.

Good fire protection can prevent fires or stop them in their early stages. This reduces the spread of smoke, firefighting water, and other toxins and pollutants caused by fires. Good fire protection also saves lives and protects health – it's the most important contribution to a sustainable and safe world.

But fire protection can also negatively impact the environment. At Dafo, we've taken several steps to make it more sustainable:

- All fire extinguishers and extinguishing agents must be non-toxic. We are rapidly phasing out all existing and new extinguishers containing PFAS.
- Fire extinguishers are refilled and reused – many are discarded unnecessarily. The greatest environmental impact comes not from the extinguishing agent but from the steel cylinder production and transport. By extending their lifespan and avoiding premature disposal, we reduce CO_2 emissions.
- When selecting new products, we consider their life cycle and strive for materials with lower environmental impact and longer durability – including emergency lighting, replacement batteries, signage, and many other products.
- Our service operations involve extensive transport with potential CO_2 emissions. We actively optimize logistics, and many of our new vehicles are electric.

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