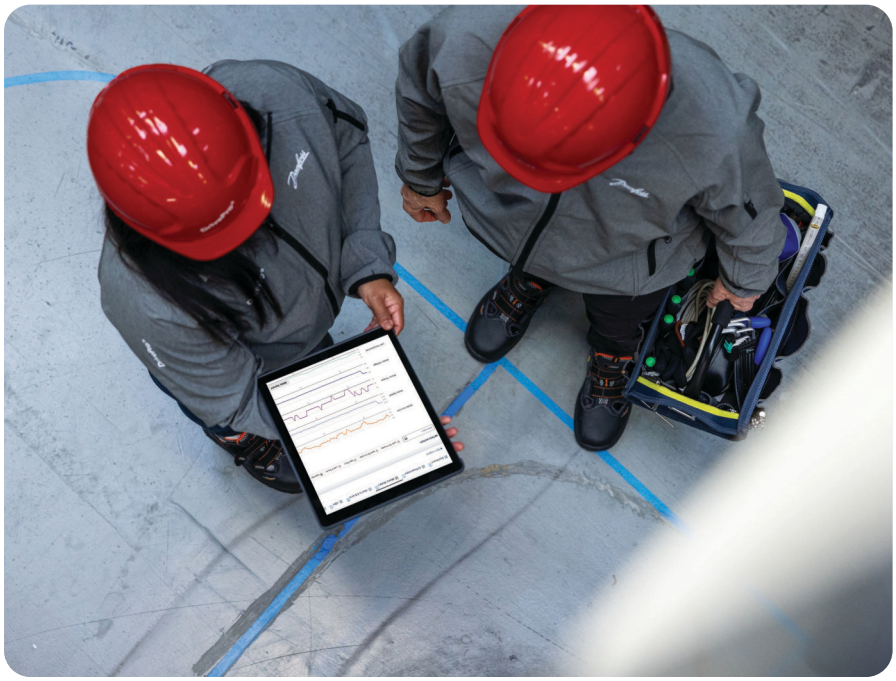
DrivePro® Remote Monitoring

See more, act sooner

DrivePro® Remote Monitoring is a self-service digital portal delivering real-time remote monitoring through continuous collection of variable frequency drives and power converters operating data and drive performance.

DrivePro® Remote Monitoring platform visualizes performance analytics in structured, detailed dashboards, enabling faster and more accurate troubleshooting, reducing reactive maintenance, and improving maintenance planning.



All your data, anytime

Data collected and showcased in dashboards:

- Operating data of application
- Drive and power converter´s parameters settings
- Alarms generated by drive that are displayed on control panel
- Condition Based Monitoring – collected only if customer has a licence (vibration, cavitation, load envelope, stator winding)

Fast, remote and smarter troubleshooting

DrivePro® Remote Monitoring enables immediate, actionable fault notifications, helping teams stay ahead of unexpected failures. Experts can perform a remote first assessment by checking live operating data and fault context without sending a technician on site.

When a drive fault occurs, high-resolution log files can be downloaded remotely, without a PC tool, enabling fast root cause identification and better preparation before dispatching service teams. This helps organizations mobilize resources more intelligently, sending the right expertise only when needed and reducing unnecessary site visits.

Flexible solution deployment

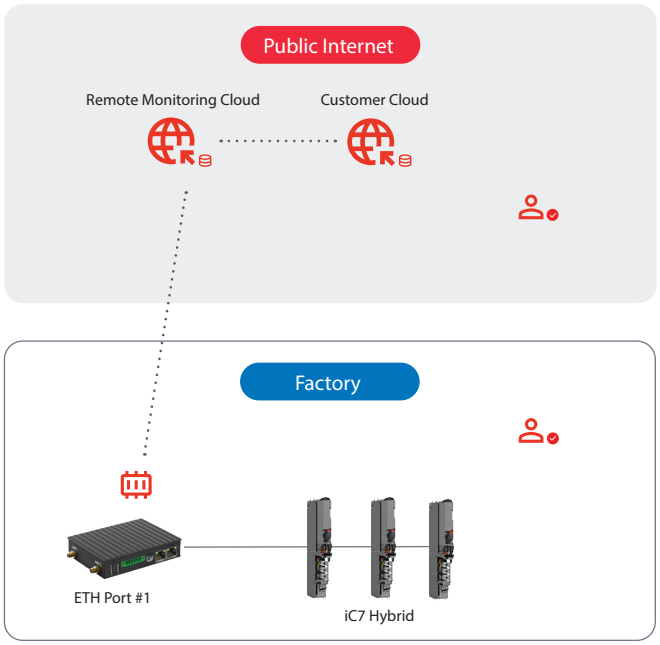
DrivePro® Remote Monitoring includes all required equipment to connect drives and power converters online, with the gateway configured and commissioned by Danfoss experts. A single Danfoss IoT gateway can provide connectivity for multiple drives and power converters. You can choose to store the data either in the cloud or locally within their on-premises server.

You can access operational data through a web platform. All data remains fully owned by the customer, ensuring full control and complete data privacy.

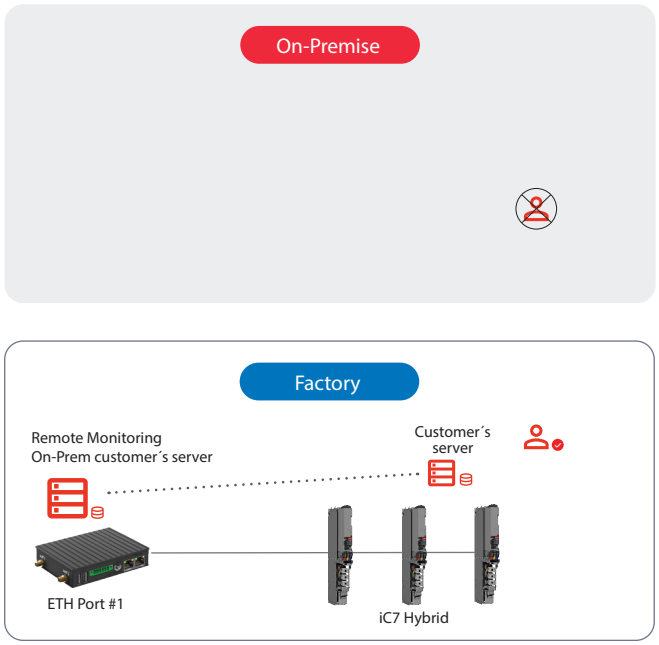
Learn more about DrivePro® Remote Monitoring

DrivePro® Remote Monitoring rationale

Cloud
(Danfoss managed infrastructure hosted in data centers located in Europe)



On-Premises
(Customer owned infrastructure deployed within the customer's IT enviroment)



Wired communication (physical connection)
Wireless communication

	Cloud	On-Premises
	The cloud solution offers lower upfront costs, requires no customer-owned server infrastructure, and makes scaling effortless. Plus, it's accessible from anywhere with internet access. While customer´s data is stored in a Danfoss-hosted cloud environment (outside the customer's premises), all operational data remains fully owned by the customer. In cloud deployments, data is stored and processed in Danfoss-hosted European data centers under contracturally defined access controls.	The On-Premises deployment keeps all data hosted locally, inside customer-owned infrastructure deployed within the customer's IT environment. While this option requires a larger initial investment and ongoing server maintenance, it provides full control over data location, handling, and security. All operational data remains fully owned by the customer.
Benefits	**1. Minimal ownership burden & predictable cost** Avoid provisioning, scaling, upgrading, or maintaining server hardware – resulting in more predictable Total Cost of Ownership (TCO). **2. Fast start-up & simplified rollout** With no local server installation, realize value faster and onboard additional sites or fleets effortlessly. **3. Universal access** Remote teams, service partners, and internal users can access the same environment instantly without VPN or firewall complexity. **4. Always current & secure** Continuous delivery of security patches, platform enhancements, and analytics updates ensures the system remains optimized and up to date.	**1. Cost efficient scalability** Since customers own and maintain the server environment, scaling to additional VFDs and power converters adds no software cost – only extra gateways if needed. **2. Full data sovereignty** All operational data and logs remain entirely within the customer's IT domain, supporting strict governance requirements. **3. Designed for high security environments** Best suited for sites where cloud connectivity is restricted, prohibited, or too costly – ensuring compliance with operational or regulatory constraints. **4. Deep integration flexibility** On-premises installations integrate seamlessly with internal systems, local data platforms, and private clouds, as everything runs behind the firewall
Set-up requirements	Reliable internet access on site (Cloud connection via customer network (LAN) or cellular network).	– Reliable internet access – Server version: Debian 12 or newer – Data storage aligned with plant infrastructure; minimum 100 GB free disk space recommended for performance tracking – Agreement to grant external service technicians time-bound, role-based access to VFD and power converter performance data via the system

Pricing model

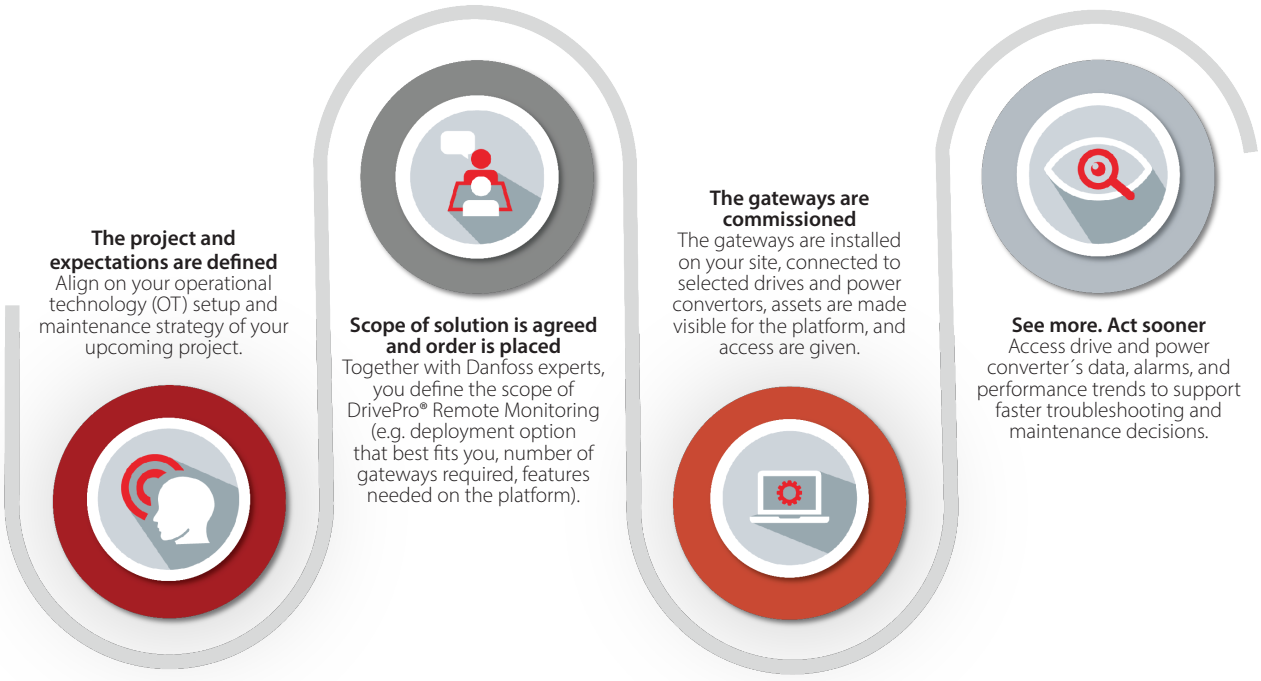
	Cloud	On-Premises
Hardware	Gateway for up to 8 drives (one-time payment)	Gateway for up to 8 drives (one-time payment)
Software	Per drive/year	Per server/year

Features and benefits

Feature	Benefit
Accurate and real-time VFD and power converter performance analytics	- Provides 1 to10 seconds data resolution for performance trending, early deviation detection, and baseline condition monitoring - During critical events, millisecond-level drive logs can be downloaded directly from the platform for precise fault analysis and root-cause investigation - Ensures that your service teams have factual, time-stamped data to guide decisions and resources - Compatible with all Danfoss VFDs and power converters
Data storage	- Preserves up to a 60-day rolling history to detect deviations and correlate events[1] - Enables reconstruction of conditions leading to faults or abnormal behavior - Supports structured analysis and long-term performance evaluation
Remote access to essential data and insights	- Eliminates the need for on-site technician presence for most diagnostics, accelerating fault identification and service preparation before site visits - Enables service teams to prioritize tasks based on real time drive data, improving resource allocation
Remote alerts with incident details	- Early notifications allow intervention before abnormal behavior becomes downtime.
Automatic parameter backup and auto-recovery[2]	- Automatic parameter backup to preserve configuration after failure - Quickly restore replacement drives and power converters using verified parameter files, minimizing restart time - Reduce the risk of configuration errors during replacement or commissioning
Easy integration with external systems	- For system integration, the REST API[3] provides a direct and scalable way to retrieve remote monitoring data and feed it into your own cloud, on-premises, or analytics environment

[1] The standard rolling window in cloud-connected DrivePro® Remote Monitoring is 60 days and can be extended at additional cost. For on-premises deployments, the retention period is fully defined by the customer.
[2] Currently available for iC7 series and VLT® drives
[3] A way for systems to communicate over the web using standard HTTP methods to exchange data, typically in JSON format.

How it works



Cybersecurity

DrivePro® Remote Monitoring is built on a secure, multilayer architecture that leverages Danfoss components designed in accordance with industry leading cybersecurity standards. The underlying drives are developed in alignment with IEC 6244341 and IEC 6244342, and the oeverall solution is designed to support achievement of IEC 62443 Security Level 2.

For more information, read the DrivePro® Remote Monitoring Cybersecurity Application Paper

Read DrivePro® Remote Monitoring cybersecurity paper

Additionally, DrivePro® Remote Monitoring is maintained in alignment with the essential cybersecurity requirements of the EU Cyber Resilience Act (CRA). Data handling practices also support compliance with Regulation (EU) 2023/2854 (the Data Act), ensuring customers retain ownership and control of their operational data.

To maintain platform integrity, Danfoss implements continuous vulnerability management. Links to the latest vulnerability advisories and patch information can be provided here:

- Danfoss coordinated vulnerability disclosure policy | Danfoss
- Coordinated Vulnerability Disclosure | Danfoss
- CVE: Common Vulnerabilities and Exposures

How to order

Contact your local sales office to request DrivePro® Remote Monitoring. Orders can be placed by email or by telephone. You can find your local Danfoss Drives contact here:

Local contacts