

Safe. Smart. Connected.

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Gas Detection Connect – the cloud software that connects your gas detection devices

Dräger

Technology
for Life



Make the most of digitalisation

In safety technology, the digital revolution and the Industrial Internet of Things (IIoT) are creating new possibilities. Digitalisation provides the foundation for connecting and controlling systems, integrating sensors, and enabling the broader use of artificial intelligence.

With the right combination of hardware and software, processes can be standardised and complex systems easier to manage. Digitalisation ensures that processes are carried out consistently, documented accurately, and less prone to error. It also makes it easier to document and comply with relevant standards and regulations. In addition, organisations benefit from:

- More efficient workflows through the display, management, and storage of current device data
- Greater safety for personnel and plant through area monitoring and access to live data
- Reduced downtime through live data, faster response times, and fewer false alarms
- More informed decision-making based on reliable data for future optimisation and safety strategies
- Improved resource planning and organisation to help address skilled labour shortages
- More efficient workflows through the display, management, and storage of current and historic device data

Gas Detection Connect

Your connection to the digital future of workplace safety

Gas Detection Connect is Dräger's cloud-based software solution that brings your gas detection systems together in one connected, digital environment.

The system brings together your gas monitoring solutions — from the Dräger X-dock station and portable single- or multi-gas detectors such as the Dräger Pac or Dräger X-am 2800/5800, to REGARD controllers and area monitoring with the Dräger X-zone. Mobile devices connect via gateways such as the Dräger ConHub or a smartphone using Bluetooth, while stationary systems are linked to the Dräger Edge Device via a REGARD system. With secure access at any time and from any location, you can manage your device fleet with clarity and control.

Stay informed about the location and status of your gas detection devices, transmitters, and personnel on site. This helps you protect your team more effectively while supporting the safe and efficient operation of your plant.

The Dräger Edge Device seamlessly connects your stationary REGARD gas warning system to Gas Detection Connect, providing direct access to live measurement data and system events.

You can monitor system status across multiple devices and manage maintenance processes remotely, so you can respond faster and keep operations running smoothly.

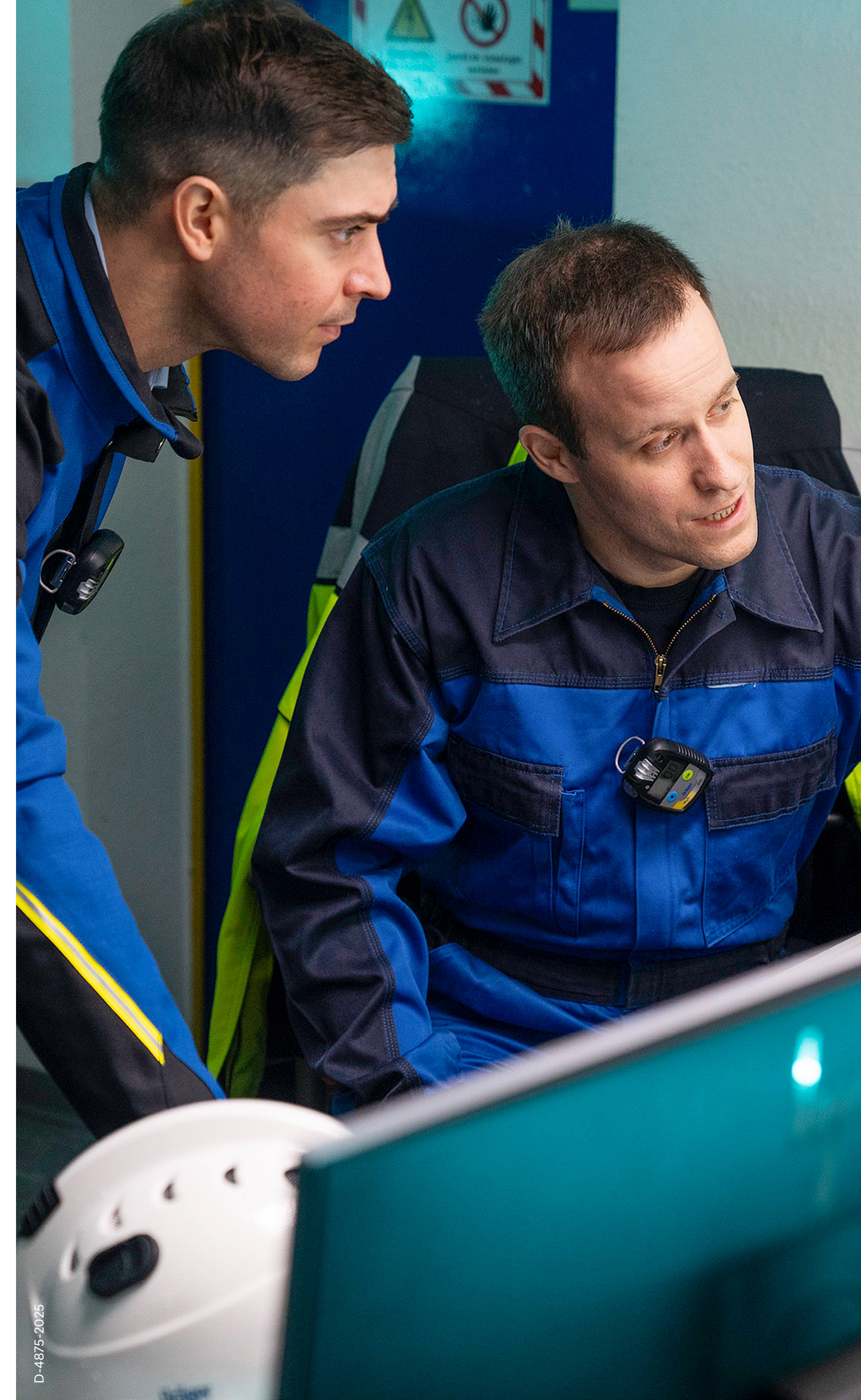


Gas Detection Connect

Discover a new era of gas detection technology

Gas Detection Connect (GDC) is a cloud-based software solution. It connects individual Dräger gas detection devices into a smart system.

- Secure and flexible data storage using Microsoft Azure as the cloud backend
- Data transmission from portable gas detection devices via the Dräger X-dock test station
- Live data transfer from mobile gas detection devices in the field using the Dräger ConHub or the Gas Detection Connect app
- Connection and data transmission of the Dräger X-zone to the ConHub via Modbus
- Data transmission from transmitters connected via the Dräger REGARD 3000 plus and REGARD 7000 controllers through the Dräger Edge Device
- Transmission of live data to the cloud, including measurement values, alarms, and device information
- Access to all data via the user-friendly web application in a standard internet browser



Increase efficiency through optimised device fleet management

Automated processes and data-driven insights

Digitalisation opens up new opportunities for more efficient fleet management by simplifying processes that were previously complex.

The goal is centralised management with decentralised execution. For example, managing your device fleet becomes much easier as data is collected automatically and can be accessed from anywhere. In addition, you benefit from:

- Centralised distribution of device firmware updates at the push of a button or automatically
- Clear visibility of device fleet status, including test status
- Customised reports generated at defined intervals and automatically sent to users by email
- Simple data export options via Excel or API interfaces for data analysis
- On-demand access to certificates in PDF format at any time



Digital progress also enables improved automation of services and maintenance intervals.

There is significant potential in applications, particularly for routine tasks such as firmware updates, testing and calibration of gas warning devices, and configuration. In stationary systems, maintenance processes are also simplified. Digitalisation helps you improve your fleet management while increasing both safety and efficiency:

- Comprehensive overview of operations through lists and dashboards for improved monitoring of daily activities
- Simplified device fleet configuration through configurable templates that can be automatically distributed*
- Compliance with documentation requirements and regulations through simplified, automated record-keeping
- Streamlined documentation for shift handovers, providing clear status updates for the next shift
- Recorded maintenance and service data to support operational excellence across the entire system lifecycle

* Applies to portable gas detection devices only





Gain deeper insights through targeted data analysis

More than one step ahead

The consolidation and availability of all field data, combined with interaction across your safety equipment, enable more advanced analyses. Unlock additional value from your data, going beyond regulatory requirements.

When planning future projects, you can use existing data to identify optimisation opportunities and support informed decision-making. Access to stored data provides clear visibility into usage trends and patterns. By extending analysis beyond hardware-focused evaluation to include historical data, the software solution delivers deeper, more meaningful insights.



Analyse the causes of incidents more quickly or detect leaks and other anomalies through pattern recognition. By combining this with external data sources such as weather data, you can create even greater transparency in the future. You also benefit from:

- Improved efficiency through automatic storage of all data in the Gas Detection Connect backend, accessible via the web application
- Clear overview of system status, including devices, connected Dräger X-dock stations, stationary gas warning systems, and stored data, all available at any time via the web application
- Centralised device fleet management, including configuration and distribution of firmware updates and device settings*
- Continuous data availability for search, filtering, and export
- Flexible data export options as Excel files, PDF documents, or via API interfaces for further analysis
- Post-event analysis capabilities based on stored measurement data

* Applies to portable gas detection devices only

Immediate availability

Access live data when you need it

When it matters most

Data is not only valuable for later analysis but also for on hand monitoring. Processing data such as device status, device information, alarms, and location within the cloud backend ensures that it is available exactly where it is needed:

- Access for safety engineers on site
- Availability in the control room for analysis in critical situations
- Support for plant fire brigades to provide a complete picture during alarm events

In this way, the use of live data contributes to improved plant safety.

When and where you need your data

Data can save lives. Collecting and analysing all relevant information not only improves the safety of your personnel, but also that of the entire plant. Combined, this data creates a comprehensive overall view that enables:

- Early identification of hazards
- Faster initiation of countermeasures
- Simplified analysis of patterns and anomalies
- More targeted root cause identification
- More informed decision-making



Reduced operational risk Greater safety for your plant

Maintain a complete overview

Using available data allows you to enhance safety across your facility. Whether personnel are working in confined spaces and industrial vessels, operating in safety-critical areas, or moving freely around the plant, control room teams can maintain visibility at all times. By combining data into a single, coherent view, potential hazards can be identified at an earlier stage:

- Visualisation of all devices on a map, including gas alarms, motionless alarms, panic alarms, and user location
- Faster location of personnel and hazard areas
- Efficient and safe evacuation management
- Live location tracking via GPS*
- Verification of safe arrival of personnel
- Elimination of manual documentation and reporting
- Automatic data storage, retrieval, and reporting
- Integration and direct forwarding of relevant data to external notification and alarm systems

* Applies to portable gas detection devices only





Enhance workplace safety — from any location

Monitoring can be carried out at any time and from any location via the internet. All relevant information can be displayed directly in the web application, allowing authorised users to gain an immediate overview of the on-site situation. This supports improved workplace safety.

Data is backed up automatically. All relevant data is stored and documented in the central Gas Detection Connect backend, using the proven Microsoft Azure® cloud solution.

Stored data can be accessed at any time for searching, filtering, and exporting to Excel, as well as for analysis and the development of future safety concepts.

Stationary gas warning systems become smart and connected

In the digital age, data forms the foundation for safety and efficiency. With the Dräger Edge Device, you can take your stationary gas warning system to the next level. As a powerful interface, it connects your REGARD 3000 plus or REGARD 7000 control units seamlessly with the cloud-based software solution Gas Detection Connect. This transforms your stationary infrastructure into an intelligent IIoT solution – for full control at any time and from any location.

Take advantage of connected systems across your plant:

- Live data visibility through clear system overview and dashboard visualisation
- Rapid response capability through immediate email notifications in the event of alarms and precise coordination of response actions
- Service management efficiency through remote access, enabling demand-based interventions and reduced travel and downtime
- Integrated safety overview through the combination of stationary and portable gas detection systems for continuous monitoring
- IT security and system integration through modern data transmission standards and flexible integration into existing systems



One system. More possibilities.

The Dräger Edge Device is your gateway to a future-ready gas detection system. It not only supports compliance with regulatory requirements through automated record-keeping but also provides a solid data foundation for in-depth analysis and the ongoing optimisation of your safety concepts.



One system. More possibilities.

Gas Detection Connect brings together a wide range of functions across your Dräger devices in one connected system. For example, you can connect the Dräger Pac or Dräger X-am 5800 to the Gas Detection Connect app* via Bluetooth®. Using the Dräger ConHub gateway, devices connect automatically, and live data such as measurement values, alarms, device information, and GPS data is transmitted to the cloud backend.

Data is processed in the web application and can be used immediately. Devices are displayed on a map along with their status, alarms, and location, giving you a clear overview at all times. Alarm events are recorded in a history log, so you can review and analyse all types of alarms, including gas, motionless, and panic alarms.

* available for Android and iOS

Data from portable gas detection devices is read out in a consistent format via the Dräger X-dock. For stationary gas warning systems, data is transmitted via the Edge Device. This allows you to monitor measurement values, review current and historical data, and receive notifications in the event of an alarm.

All data is stored automatically in the cloud backend and made available through the web application. Certificates and relevant information are centrally accessible, while device status and condition are updated automatically. Firmware updates and device configurations can be managed centrally, and stored data can be analysed at any time.



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Flexible ways to connect your data Securely connected to the cloud backend

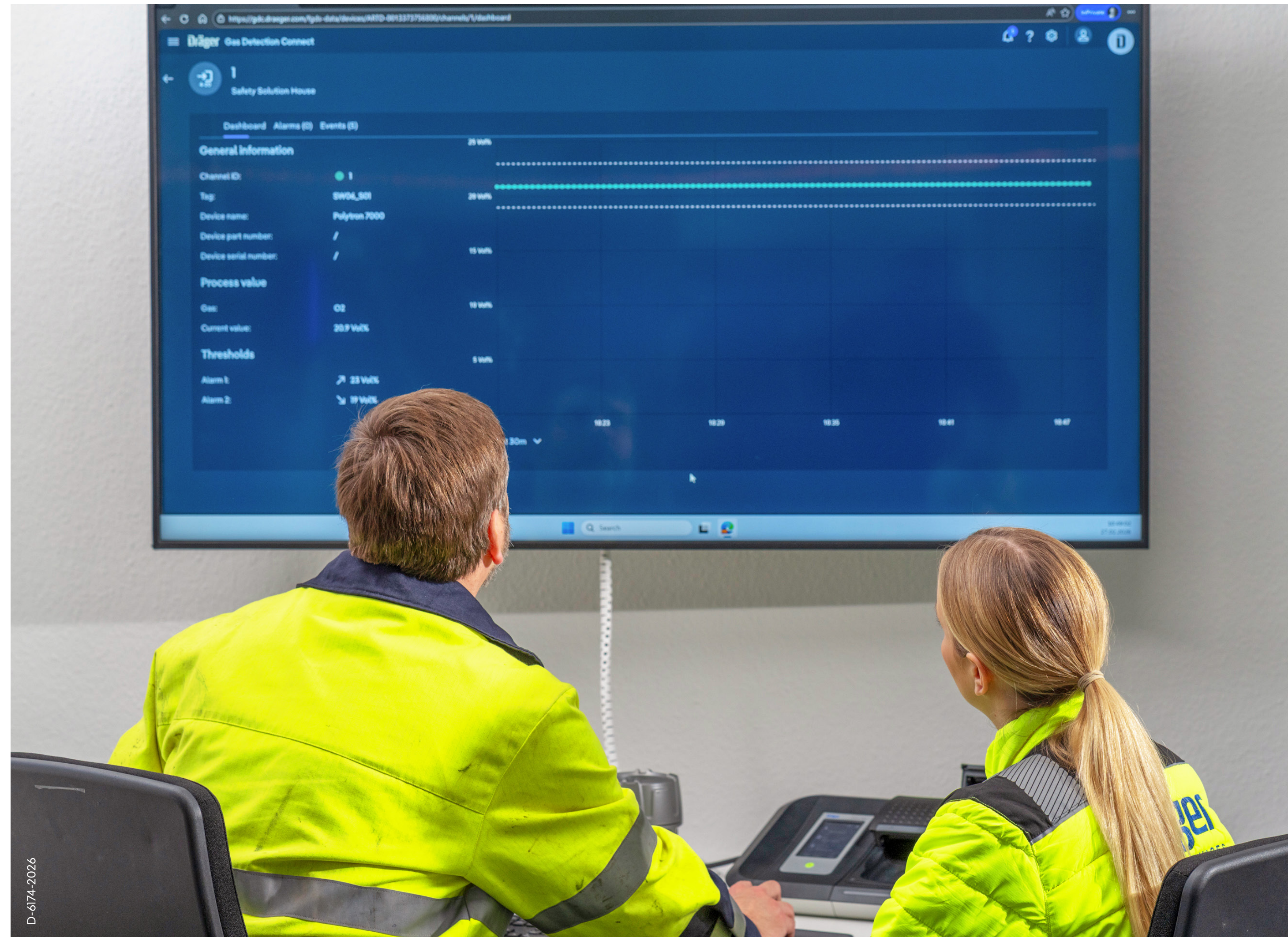
Getting started

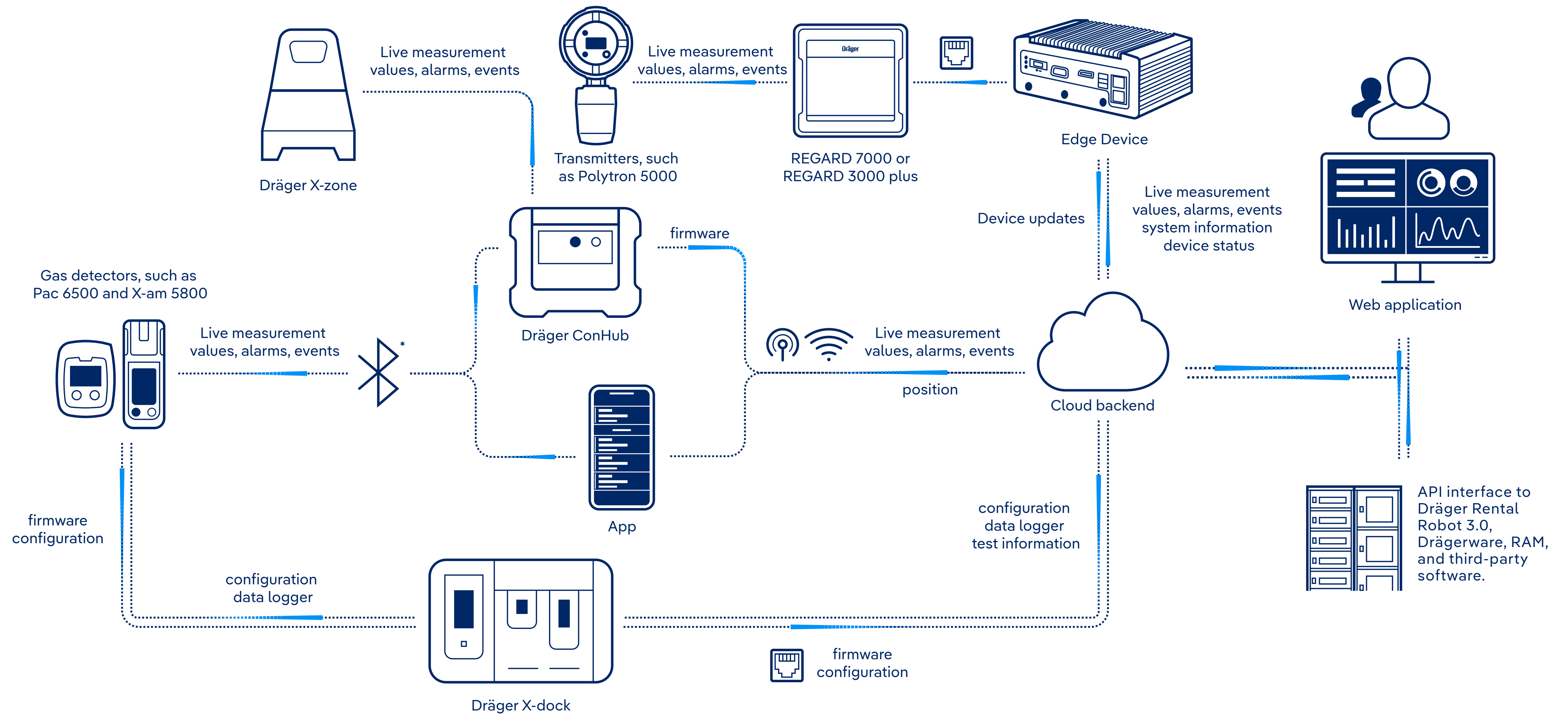
No software installation is required.

The cloud backend is based on Microsoft Azure[®]*, with data centres located in the EU. The web application can be accessed via a standard internet browser. To get started, connect your Dräger X-dock stations to the internet, set up the ConHubs, download the Gas Detection Connect app, or connect the Edge Device.

To use Gas Detection Connect, licences are required. These can be selected according to your specific requirements and the devices you use.

*Microsoft[®] Azure is a registered trademark of Microsoft[®].





*Bluetooth capability required
 Bluetooth® is a registered trademark of Bluetooth® SIG, Inc.

A future-ready system for your plant

Take advantage of the wide range of applications our system offers today, and benefit from its continuous development. This ensures that your investment keeps pace with your requirements and future developments.



D-40513-2021



D-31-2022



Available today:

- Automated data readout and storage of portable gas detection devices via the Dräger X-dock, with direct transfer to the cloud backend
- Bluetooth connectivity for Dräger Pac and X-am 2800/5800 devices via the Gas Detection Connect app or the Dräger ConHub
- System integration of the Dräger X-zone via the Dräger ConHub
- Live data transmission of measurement values, alarms, device information, and GPS data via the ConHub or smartphone
- Web-based data processing and utilisation within the web application
- Integrated stationary and portable gas detection systems, with data from the Dräger REGARD 3000 plus and REGARD 7000, including all connected transmitters, transmitted to the cloud backend

Future capabilities:

- Integrated connectivity for the Dräger X-am 8600 via the app, the Dräger ConHub, and the X-dock for device management
- Centralised data transmission to devices via the Gas Detection Connect app or the Dräger ConHub, enabling the forwarding of alarms in hazardous areas

A solution you can rely on — scalable and future-ready —

With Gas Detection Connect, we have created the technical foundation for bringing together stationary and portable gas detection systems.

Your requirements may change depending on your application and technical environment. That is why we stay in close contact with our customers and continue to develop Gas Detection Connect in line with their needs. Features such as automated firmware updates, centralised device configuration, and advanced data analysis are just a few examples.

The flexible GDC licensing model allows you to tailor your licence package to your specific requirements and devices.

Looking ahead, communication will not only run from devices to the system, but also in the other direction. For example, personnel can be redirected immediately via the web application if they are approaching a hazardous area. Gas Detection Connect offers clear advantages across a wide range of applications, helping to make gas detection simpler, more efficient, and safer through digitalisation. By connecting stationary gas detection systems, it enables centralised monitoring and rapid alarm notification when it matters most.



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