Connect to the digital future of safety

Gas Detection Connect – the system solution by Dräger

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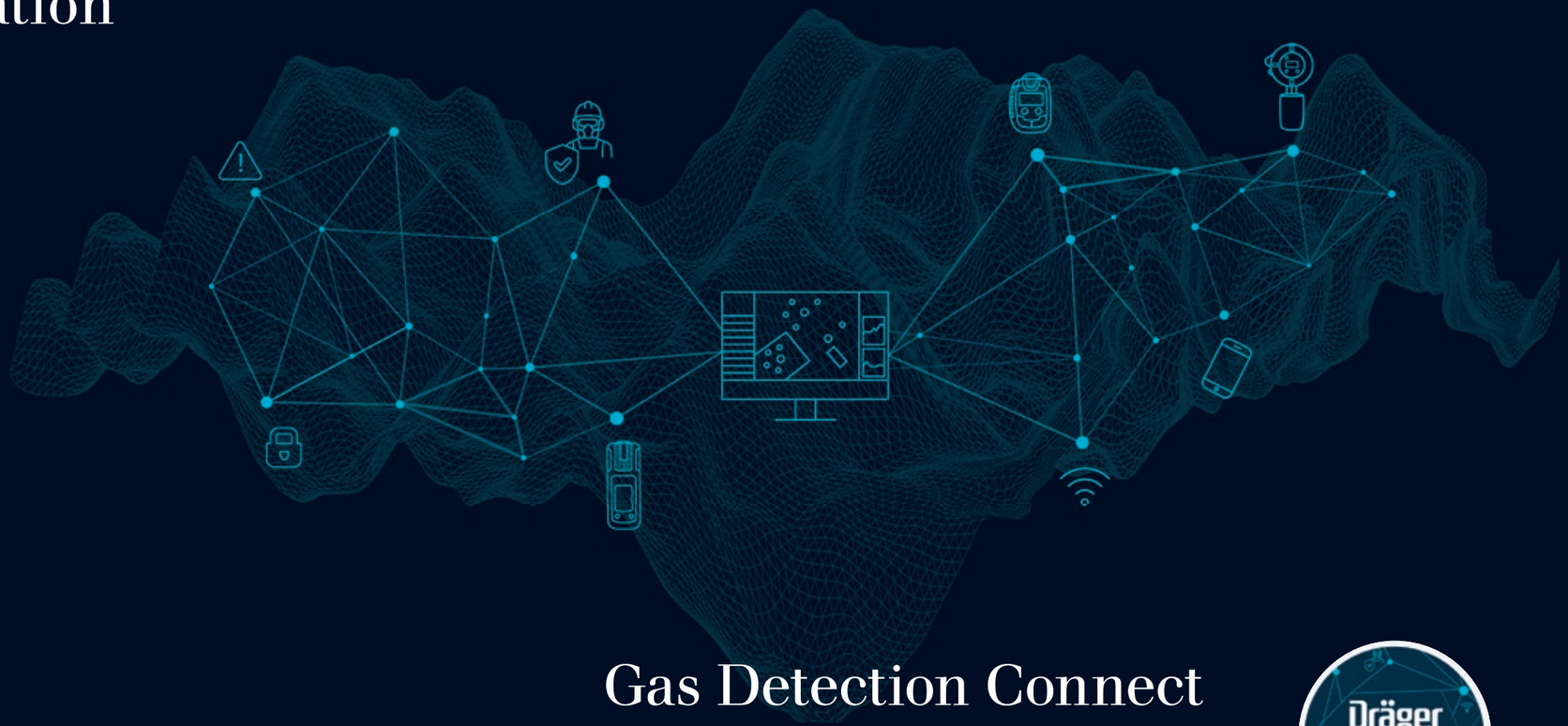
Exploit all opportunities of digitalisation



In the field of safety technology, the digital revolution and the Industrial Internet of Things (IIoT) are opening up completely new possibilities. Digitalisation forms the basis for networking and controlling systems, connecting sensors or the extensive use of artificial intelligence.

With the help of the right hardware and software, processes can be standardised and complex systems can be controlled more easily. Due to digitalisation, all processes are carried out identically, documented correctly and errors are minimised. Guidelines and laws can be documented and complied with more ease by those responsible. In addition, companies benefit from:

- More efficient work processes – by viewing, managing and saving current device data
- Increased safety – thanks to area monitoring and live data
- Reduced downtime – through live data and less false alarms
- More accurate decision-making – using data basis for future optimisations or security concepts
- Better resource planning and organisation – efficient measure against the shortage of skilled workers

Gas Detection Connect

Dräger Smart Safety Solution

YOUR CONNECTION TO THE DIGITAL FUTURE OF OCCUPATIONAL SAFETY

With its cloud-based software solution, Gas Detection Connect, Dräger is opening up the opportunities of digitalisation for gas detection technology.

The system connects individual products from Dräger, such as the Dräger X-dock®, Dräger X-am® 2800 or Dräger Pac® for gas monitoring. Thanks to the location and time-independent access, you can ideally manage your equipment fleet.

Keep track of the position and status of your gas detection device and workers in front of you. Not only do you better protect your workers, but you also increase the efficiency of your plant.

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Gas Detection Connect: get to know the new era of gas technology systems

D-40484-2021

Bluetooth® enabled gas detector, such as Dräger Pac®, transmits:

- Live readings
- Live alarms
- Errors

Gas Detection Connect app on smartphone captures:

- Live readings
- Errors
- Personal data
- Live alarms
- Location

and transmits it directly to the cloud back end.

Cloud back end Microsoft Azure® as cloud back end for secure and flexible storage of data from all devices.

Front end accessible as a web application via an internet browser (recommendation: Google Chrome™ browser).

- Stored events
- Device information

- Firmware

- Stored events
- Device information
- Certificates

- Firmware
- Configuration

Gas Detection Connect is a cloud-based software solution. It turns individual Dräger gas detection products into one smart system.

- The transfer of data takes place via a cloud connection. Microsoft Azure® is used as the cloud back end for secure and flexible data storage
- The Dräger X-dock® test station sends the data from the inserted mobile gas detection devices to the cloud back end
- Device data of all X-dock® enabled mobile gas detection devices are automatically read out via the internet
- Use the Gas Detection Connect app to immediately transfer data from the field
- Connection of a Bluetooth® enabled Dräger Pac® or Dräger X-am® 2800 with the app
- Live data, such as measured values, alarms, device information and GPS data from smartphones, are sent to the cloud back end
- Access the web application via an internet browser (recommendation: Google Chrome™ browser)

Increase your efficiency: by optimising your asset management

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AUTOMATE PROCESSES AND ANALYSE DATA

Digitalisation creates new opportunities for more efficient fleet management. It simplifies many processes that were previously complex. Such as manually collecting data to document and test devices after compliance.

The goal is to centralise management but decentralise execution. For example, equipment management becomes much easier because data can be automatically collected and accessed from anywhere. In addition, you benefit from:

- Easy export of data via Excel or API interface for data analysis
- Retrieval of unit overviews and test certificates as PDF at any time
- Centralised distribution of firmware updates and reports to users
- Overview of which units need to be checked or replaced at any time

Digital progress also enables much greater automation of services and maintenance intervals.

There is a lot of potential, especially for regular tasks such as firmware updates, testing and calibration of gas detection devices or initial configuration. Here, digitalisation helps you to improve your asset management and to increase safety and efficiency:

- Comprehensive overview for better monitoring of ongoing and daily operations
- Data from different field devices and applications are made available in near real time from a central location
- Fulfilment of verification obligations and regulations through simplified, automated documentation
- Documentation simplifies details at shift changes and provides status updates for the following shift
- Recorded data of maintenance and servicing tasks improves operational excellence – in terms of the life cycle of the plant

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Deepen your insights: targeted analysis of data

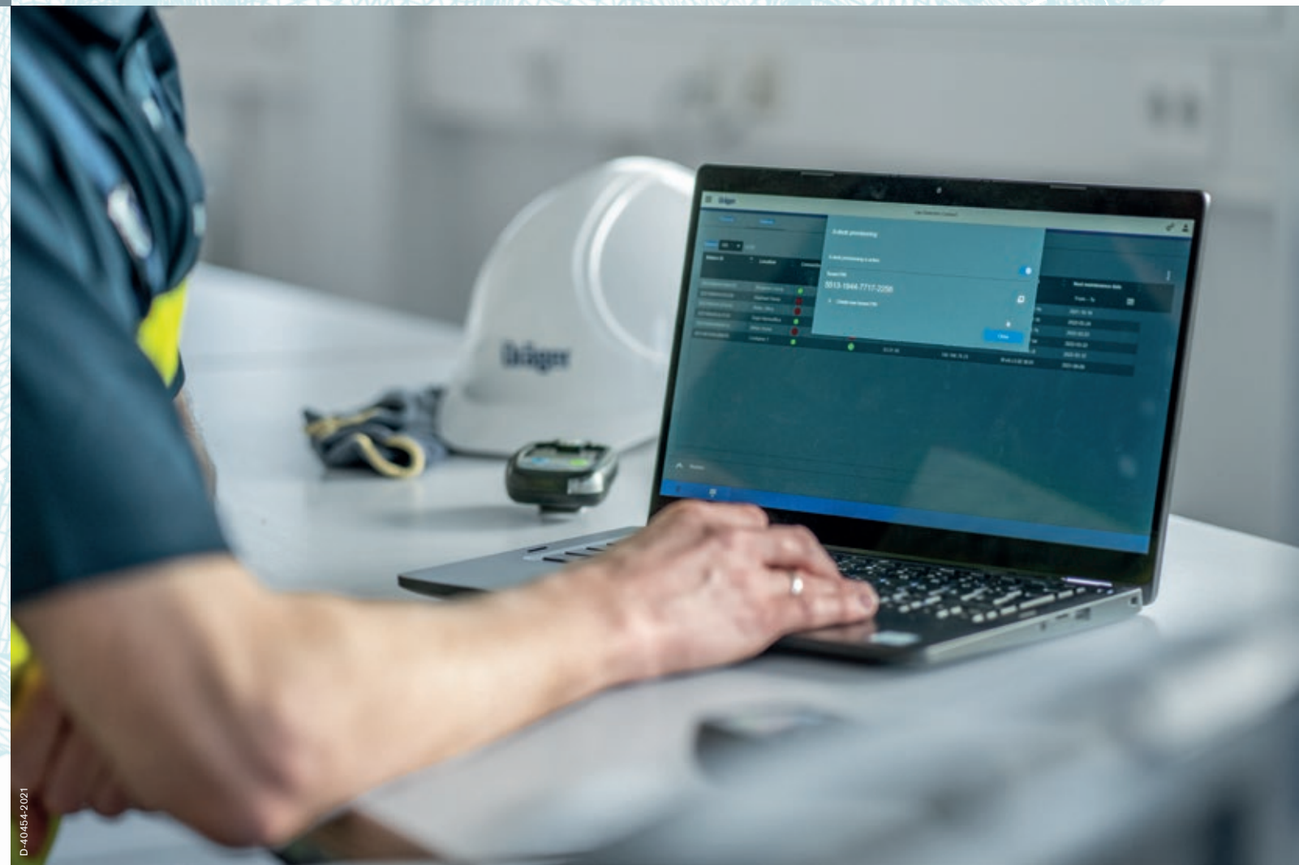
MORE THAN ONE STEP AHEAD

Consolidation and provision of all collected data from the field and the interaction with the safety equipment enables sophisticated analysis. Take advantage of this further value creation from the available data that goes beyond the legal requirements.

When planning future projects, you can derive improvements from the available data. The historical view shows you usage trends and patterns. Beyond the predominantly hardware-related analysis, software solutions for security provide further insights when entering the data history.

Analyse the causes of incidents faster or uncover long-term leaks and other anomalies by detecting patterns. Together with other external data sources, such as weather data, you create even more transparency in the future. You also benefit from:

- Increased efficiency: automatic storage of all certificates in the Gas Detection Connect back end, available via web application
- Better overview: status of devices, connected Dräger X-dock® stations and number can be viewed at any time via the web application
- Central management: configuration and distribution of firmware updates via Gas Detection Connect
- Availability at any time: all data is available for searching, filtering and exporting (Excel export as XLSX file or certificate as PDF)
- Easy export of data as Excel spreadsheet or API interface for data analysis



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Immediate availability: get live data when you need it

WHEN IT REALLY MATTERS

Not only can you use the data for downstream analysis, but also for live monitoring. Processing the data – device status and information, alarms and the location – in the cloud back end ensures that it is available where it is needed:

- With the safety engineer at the plant
- In the control room for analysis in critical situations

In this way, the use of data – live and in real time – contributes to better safety at your plant.

WHEN AND WHERE YOU NEED THE DATA

Data can save lives. Collecting and evaluating all the relevant information not only increases the safety of your employees, but of the entire facility. All data contributes to a holistic overall picture, allowing you to:

- Identify hazards from the operator position at an early stage
- Initiate countermeasures more quickly
- Analyse correlations and anomalies more easily
- Reveal causes in a more targeted manner

D-32-2022

Reduction of operation risks: more safety for your plant

GET THE BIGGER PICTURE

Using the existing data material enables you to ensure greater safety at your facility. Whether employees are moving to confined spaces or containers, working in safety-relevant areas or travelling freely at the plant. Those responsible for safety in the control centre can always be with them, compile the data into an overall picture and recognise danger scenarios earlier:

- Display of all devices on a map, including real-time alarm status and location of the user
- Locate a hazardous area or employees more quickly
- Carry out efficient and safe evacuations
- Monitor evacuation status through GPS
- Determine safe arrival easier
- Eliminate the need for manual documentation and reporting
- Automatic storage, retrieval and reporting of data

INCREASE OCCUPATIONAL SAFETY – NO MATTER FROM WHICH LOCATION

Monitoring can be carried out from any location that has an internet connection. All relevant information can be displayed directly in the web application. This way, any authorised person can get an immediate overview of the situation on-site. This also contributes to increased occupational safety.

Data backup is done automatically. All the relevant data is stored and documented in the central Gas Detection Connect back end. The proven Microsoft Azure® back end solution is used for this.

The stored data can be used at any time for searching, filtering, exporting as Excel spreadsheet and, above all, for analysis and the creation of future safety concepts.

09-2021

One system, more possibilities

Take advantage of the many options Gas Detection Connect offers for different Dräger devices today. For example, connect the Dräger Pac® or the Dräger X-am® 2800 via Bluetooth® to the Gas Detection Connect app. Send live data such as readings, alarms, device information and GPS data from the smartphone to the cloud back end.

The data is processed in the web app and can be used directly. The device, its status, alarm and location are displayed on a map. The alarm data is stored in an event history for evaluation.

Mobile gas detection devices are read out via the Dräger X-dock®. Data storage takes place directly and automatically in the cloud back end.

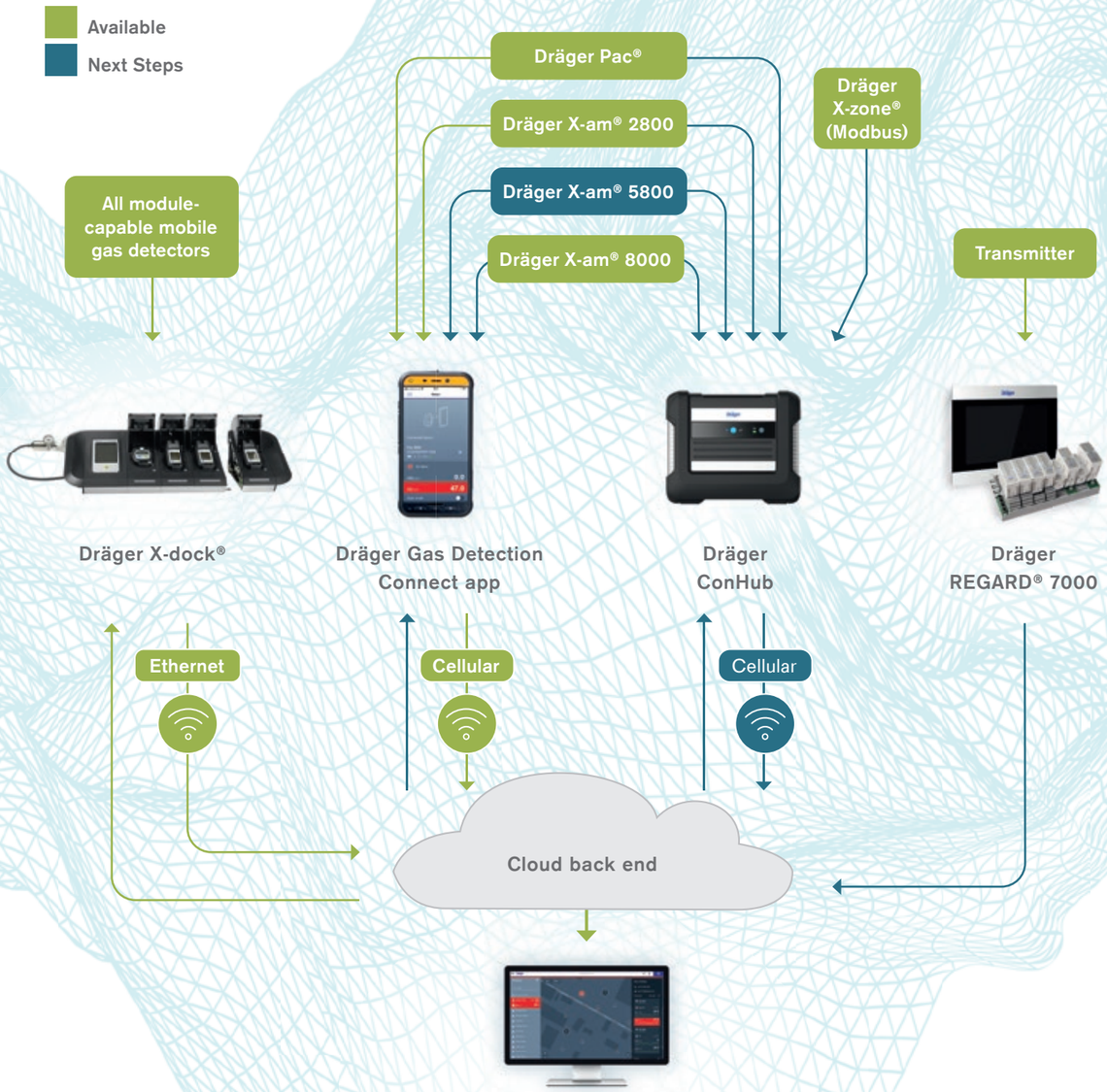
Data processing and use takes place in the web application. Certificates are stored automatically and centrally accessible. The status and condition of the units and stations are displayed automatically.

Firmware updates can be distributed and carried out centrally. As well as the evaluation of the data loggers.

REQUIREMENTS

No software installation is required. Microsoft Azure® with data centres in the EU is used for the cloud back end. The web application is accessed via an internet browser. All that is required is to connect the Dräger X-dock® stations via the internet and download the Gas Detection Connect app. Asset management and live monitoring can be purchased separately or together.

MANY PATHS, ONE GOAL: GETTING YOUR DATA INTO THE BACK END



A future-proof system for your plant

Take advantage of our system's many application possibilities today and benefit from its continuous further development. This way, you can be sure to invest in a solution that keeps pace with your requirements and future developments.

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ALREADY TODAY:

- Read out mobile gas detectors via the Dräger X-dock® and save the data directly and automatically in the cloud back end
- Connect the Dräger Pac® and X-am® 2800 gas detection devices via Bluetooth® to the Gas Detection Connect app
- Transfer of live data, such as measured values, alarms, device information and GPS data from the smartphone, to the cloud back end
- Processing and use of the data can be done in the cloud back end
- For permanently installed gas detectors: Transmitter sends data, for example via the Profibus, to the Dräger REGARD® 7000 controller

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FUTURE OPPORTUNITIES:

- Connection of the Dräger X-am® 8000 mobile gas detector via app and Dräger ConHub
- The ConHub receives the data from the Dräger Pac®, Dräger X-am® 2800, Dräger X-am® 5800 and Dräger X-am® 8000 within a certain radius, as well as the data from the Dräger X-zone® via Modbus, directly to the cloud back end
- Then if required, a smartphone is no longer needed, because the Dräger ConHub combines all connections to bring the data to the cloud back end
- Merging stationary and mobile monitoring. The data of the Dräger REGARD® 7000 and thus of all transmitters are sent to the cloud back end

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Rely on a solution that is not only scalable, but also future-proof

WITH GAS DETECTION CONNECT, WE HAVE CREATED THE TECHNICAL BASIS FOR MERGING STATIONARY AND MOBILE GAS MONITORING.

Depending on the application and technical requirements, your needs may change. We are in close contact with our customers in order to react to this. Gas Detection Connect is thus constantly growing in terms of its functions. The automatic distribution and start of firmware updates, new template configuration or the more in-depth analysis options of the collected data are just some few examples.

In the future, it should not only be possible to read out and display the gas detectors, but also to communicate back. For example, an employee can be immediately detoured via the web application if they are in the vicinity of a hazard. Gas Detection Connect brings you advantages in many areas and makes gas detection easier and safer with the help of digitalisation.

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