



Portable Gas Detectors

Dräger

Technology for Life



What does more than 80 years in portable gas detection mean? A lot of experience!

When we started developing our first mobile gas detectors – the classic Dräger-Tube® gas testers – most miners used canary birds to test the atmosphere underground on oxygen deficiency.

At that time we had already recognized what life saving gas detection is all about: the precise, reliable and multifunctional measurement of all harmful gases – not only oxygen. Be it toxic or explosive, today we have the right portable detection device for (nearly) all tasks

The application fields of our mobile gas detection devices are diverse as your daily work, no matter in which industry. Use it for personal workplace monitoring, clearance measurement of confined spaces, leakage detection, area monitoring and much more

Broad portfolio sensors

Our single and multi-gas detectors measure above 600 different gases and vapours. DrägerSensors® are characterised by fast response times to ease processes like clearance measurements.

Efficient maintenance processes

Easy preparation for the next job: We support modern fleet management with fast and automated processes for quick test times

Quality pays off

The high robustness and poison resistance as well as low cross-sensitivities are valuable properties for investing in occupational safety. The longevity of the sensors reduce the cost of ownership. The proven Dräger-Tubes are calibration free with sustainable batch monitoring



Gas detectors for keeping workers safe

Many hazards cannot be detected by human senses: toxic gases, oxygen deficiency, combustible gases and vapours. All these hazards pose a serious threat to human life and plant safety in many branches of industry. Portable gas detectors alert a worker early and increase occupational safety.

When it comes to reliable gas detection, you can trust on portable gas detectors from Dräger. We have more than 80 years' experience in this technology and offer a full range from reliable gas detectors, stations for calibration and bump testing, as well as software solutions, helpful system components, and accessories.



Dräger Single-gas Detectors

We have the solution for your task

If the danger of toxic gases or vapours can be narrowed down to a single gas or leading substance, then single-gas measuring and warning devices are the ideal solution for personal monitoring in the workplace. They are small, robust, and ergonomic. These devices are usually attached to the work clothing near the breathing area, but do not limit the movement of workers

D-4977-2017



Dräger Pac® 6000

- Disposable device up to two years for CO, H2S, SO2 or O2 *
- Robust, quick sensor response times, powerful battery

D-45500-2021



Dräger Pac® 6500

- Non-disposable device for CO, H2S, SO2 or O2
- Robust, quick sensor response times, powerful battery

D-45502-2021



Dräger Pac® 8000

- Non-disposable device for special gases like NO2, O3 or COCl2
- Robust, quick sensor response times, powerful battery

D-45509-2021



Dräger Pac® 8500

- Non-disposable device for hydrogen compensated CO sensor or dual sensor for H2S/CO or O2/CO
- Robust, quick sensor response times, powerful battery

D-7474-2019



Dräger X-am® 5100

- Robust, with a large display
- For highly reactive gases such as HF, HCl, H2 O 2 and N2 H4
- Together with the Dräger X-zone 5500 it is also suitable for area monitoring

*Lifetime extension available



	Dräger Pac® 6000	Dräger Pac® 6500	Dräger Pac® 8000	Dräger Pac® 8500	Dräger X-am® 5100
Highlights					
Measurable gases	CO, O ₂ , H ₂ S, SO ₂	CO, O ₂ , H ₂ S, SO ₂	NO, CO ₂ , Cl ₂ , HCN, NH ₃ , PH ₃ , OV, OV-A, NO ₂ , Ozone, Phosgene	CO H ₂ -CP, CO/H ₂ S, CO/O ₂ , H ₂ S/O ₂	H ₂ O ₂ , HF/HCL, Hydrazine
Technical data					
Temperature range (device)	-40°C to 55°C	-40°C to 55°C	-40°C to 55°C	-40°C to 55°C	-20°C to 50°C
Max battery service life (24/7)	2 years ¹	2 years ¹	2 years	1 year	
Rechargeable battery					●
Lifetime	2 years ²	Unlimited	Unlimited	Unlimited	Unlimited
Weight	106 g	106 g	106 g	106 g	220 g
System compatibility					
Bump Test Station	●	●	●	●	
Dräger X-dock®	●	●	●	●	
Dräger X-zone®					●
Features					
Bluetooth® / Open GATT option		●	●	●	
Changable filter	●	●	●	●	
D-light	●	●	●	●	
TLV / STEL / Peak	●	●	●	●	●
Datalogger	●	●	●	●	●
Dual sensor				●	

¹ with O₂ sensor 1 year

² Lifetime extension available

Bluetooth® is a registered trademark owned by Bluetooth SIG, Inc.



Dräger Multi-gas Detectors

The measured response to different hazards

Personal protection, area monitoring, confined space entry permits as well as safety measurements of shafts, channels or tanks are no problem with the new devices of the Dräger X-am® family. These portable gas detection instruments deliver reliable measurements, while durable sensors designed in-house ensure maximum safety coupled with extremely low operating costs.

D-59025-2012



Dräger X-am® 2500

- 1 to 4 gas detection device
- Detection of flammable gases and vapours as well as O₂, CO, H₂S, NO₂ and SO₂
- Low weight and handy
- Useable with Dräger X-am pump CSE

D-3409-2022



Dräger X-am® 2800

- 1 to 4 gas detection device
- Detection of flammable gases and vapours as well as O₂, CO, H₂S, NO₂ and SO₂
- Bluetooth®
- Useable with Dräger X-am pump CSE

D-16519-2009



Dräger X-am® 5000

- 1 to 5 gas detection device
- Ex-Tox-Ox detection of gases and organic vapours
- Useable with Dräger X-am pump CSE and with Dräger X zone 5500 for area monitoring

D-23637-2009



Dräger X-am® 5600

- 1 to 6 gas detection device
- Detection of explosive, flammable and toxic gases as well as vapours and oxygen
- Useable with Dräger X-am pump CSE and with Dräger X zone 5500 for area monitoring

D-9539-2022



Dräger X-am® 5800*

- 1 to 6 gas detector
- IR or CatEx or PID and all XXS sensors*
- Detection of explosive, combustible and toxic gases as well as vapours and oxygen
- Bluetooth®
- Useable with Dräger X-am pump for clearance measurement and with Dräger X zone 5500/ 5800 for area monitoring

D-11880-2016



Dräger X-am® Pump

- External pump
- Can be used with the gas detectors Dräger X-am 2500, 2800*, 5000, 5600 and 5800*
- Pump starts automatically when connected to the gas detector

* Please contact Dräger for availability.



	Dräger X-am® 2500	Dräger X-am® 2800	Dräger X-am® 5000	Dräger X-am® 5600	Dräger X-am® 5800*
Highlights					
Measurable gases	Ex (flammable gases, vapours), O ₂ , CO, NO ₂ , SO ₂ and H ₂ S	Ex (flammable gases, vapours), O ₂ , CO, H ₂ S, NO ₂ and SO ₂	Ex, O ₂ , CO, H ₂ S, NO ₂ , SO ₂ , ... (choice out of 37 sensors)	IR Ex/CO ₂ , O ₂ , CO, H ₂ S, NO ₂ , SO ₂ (choice out of 37 sensors)	Ex, O ₂ , CO, H ₂ S, NO ₂ , SO ₂ , VOC (PID) ... (choice out of 39 sensors)
Application area	PAM + CSE	PAM + CSE	PAM + CSE + Area Monitoring	PAM + CSE + Area Monitoring	PAM + CSE + Area Monitoring
Technical Data					
Weight	220 g	220 g	220 g	220 g	220 g
Max number of gases	4	4	5	6	6
System Compatibility					
Dräger X-dock® Cal Station & Fleetmanagement	●	●	●	●	●
Bump Test Station	●	●	●	●	●
Dräger X-zone® (area Monitor)			●	●	●*
Dräger X-am® Pump (external pump)	●	●*	●	●	●*
Features					
D-Light (compliance signal)		●			●
Bluetooth®		●			●
Customer specific settings via PC software CC Vision	●	●	●	●	●
Customer specific settings ex factory	●	●	●	●	●

PID – Photoionization detector / PAM – Personal air monitoring / CSE – Confined space Entry. Bluetooth® is a registered trademark owned by Bluetooth SIG, Inc.

*Please contact Dräger for availability.



Dräger Multi-gas Detectors

For clearance measurement and special measuring tasks

Clearance measurement was never this easy and convenient: The 1 to 4 gas detector Dräger X-am® 3500 and the 1 to 7 gas detector Dräger X-am® 8000 detects toxic and flammable gases as well as vapours and oxygen all at once – either in pump or diffusion mode. Innovative signaling design and handy assistant functions ensure complete safety throughout the process and easy handling.

D-406-2018



Dräger X-am® 3500

- 1 to 4 gas detection device
- Detection of flammable gases and vapours as well as O₂, CO, H₂S, NO₂ and SO₂
- With internal pump
- Especially developed for CSE, easy switch between diffusion and pump mode

D-6521-2017



Dräger X-am® 8000

- 1 to 7 gas detection device
- Detection of toxic and combustible gases as well as vapours and oxygen
- Internal pump optional available
- Especially developed for CSE, easy switch between diffusion and pump mode
- Assistant functions and Bluetooth® available

	Dräger X-am® 3500	Dräger X-am® 8000
Highlights		
Measurable gases	Ex (flammable gases, vapours), O ₂ , CO, H ₂ S, NO ₂ and SO ₂	Ex, O ₂ , CO, H ₂ S, NO ₂ , SO ₂ , CO ₂ , VOC (PID) ... (choice out of 49 sensors)
Application area	CSE + PAM	CSE + PAM + Area Monitoring
Technical Data		
Weight	550 g	495 – 600 g
Number of gases	4	7
System Compatibility		
Dräger X-dock® Cal Station & Fleetmanagement	●	●
Internal pump	●	● optional
Features		
Colour display	●	●
Inductive charging	●	●
D-Light (compliance signal)	●	●
Bluetooth® "CSE Connect" mobile solution		●
Customer specific settings via PC software CC Vision	●	●
Customer specific settings ex factory		●

PID – Photoionization detector / PAM – Personal air monitoring / CSE – Confined space Entry. Bluetooth® is a registered trademark owned by Bluetooth SIG, Inc.



D-4299-2014



Dräger X-zone® 5500/5800

- Area monitor
- In combination with the Dräger X-am® 5000, 5100, 5600 or 5800* gas measuring devices, it is suitable to measure 1 to 6 gases
- Limitless area monitoring thanks to fence line of up to 25 devices

	Dräger X-zone® 5500	Dräger X-zone® 5800
Highlights		
Application area	Area Monitoring	Area Monitoring
Technical data		
Operating time	Approx. 120 h (24 Ah battery)	Approx. 120 h (24 Ah battery)
Degree of protection (IP class)	IP 67	IP 67
Weight	10 kg	10 kg
System Compatibility		
Dräger X-am® 5000	●	●
Dräger X-am® 5100	●	●
Dräger X-am® 5600	●	●
Dräger X-am® 5800*	●	●
Features		
Radio transmission	Worldwide license free-ISM frequencies	Worldwide license free-ISM frequencies
Radio transmission range	Robust and interference-free transmission up to 100 m	Robust and interference-free transmission up to 100 m
Gas entry	360°	360°
Power Supply Ex		●
Pump version available		●
Potential free relais contact	●	●
Data interface modbus	●	●
Dräger X-zone® Com no longer available	●	●

* Please contact Dräger for availability.



D-1203-2021



Dräger X-pid® 9500

- Selective VOC gas detection
- For frequent testing of toxic and carcinogenic substances
- Laboratory quality results in very low concentrations
- Benzene measurement starting from 50 ppb
- No consumables per measurement

* Please contact Dräger for availability.

Dräger X-pid® 9500

Highlights

Target compounds
(analysis mode)

Benzene, Butadiene and
44+ other VOCs

Extendable compound database



Total VOC measurement
(seeker mode)



Technical data (sensor unit)

Temperature range

-10°C to 35°C

Weight

880 g (2 lb)

Degree of protection (IP class)

IP 54

Features

Measurement technology

Gas chromatography
+ PID sensor

Internal pump
(10 m probe attachable)



Internal fresh air in
hazardous environment



Approval

Ex approval zone (sensor unit)

Zone 0

Ex approval zone (control unit)

Zone 1

ATEX



IECEX



cCSAus





DrägerSensors®

Precise. Long-lasting. Proven quality

Whether electrochemical, catalytical, infrared or PID – sensors from Dräger have always been leading-edge technology worldwide. All our sensors are produced under clean room conditions and are individually tested prior to shipping. DrägerSensors have been proven worldwide under hostile ambient conditions such as in mining, on offshore drilling rigs, in refineries and in chemical plants.

D-7212-2019



DrägerSensor® XXS

- Electrochemical sensor
- Monitoring of toxic gases and lack of oxygen
- Compatible with: Dräger Pac series and all devices of the Dräger X-am family
- Measuring range: in vol. - % and ppm

D-8877-2019



DrägerSensor® XS (HF/HCl, H2 O2 , N2 H4)

- Electrochemical sensor
- Monitoring of reactive toxic gases such as hydrogen chloride, hydrazine and hydrogen peroxide
- Compatible with Dräger X-am 5100
- Measuring range: in ppm

D-27736-2017



Dräger Catalytic Ex-Sensors

- Monitoring of flammable gases and vapours
- High poisoning resistance to silicones and H2S
- Compatible with: Dräger X-am 2500, 5000 / X-am 3500, 8000 (CatEx 125 PR) / X-am 2800* (CatEx SR)
- Measuring range: lower explosion limit and 100 vol.-% CH4

D-1604-2010



Dräger Infrared Sensors

- Monitoring of flammable gases and vapours and CO2
- Ideal for measuring hydrocarbons in an inert atmosphere
- No poisoning effect due to technology
- Compatible with: Dräger X-am 5600/8000 and X-am 5800* (XD-IR series)

D-13891-2017



Dräger PID Sensors

- Detection of volatile organic compounds in low concentrations
- Compatible with: Dräger X-am 8000 (PID HC and PID LC ppb) – selective benzene measurement with pre-tubes possible/ Dräger X-am 5800* (PID HC neo)
- Measuring range: from ppm to ppb



	DrägerSensor® XXS	DrägerSensor® XS (HF/HCl, H₂O₂, N₂H₄)	Dräger Catalytic Ex Sensors	Dräger Infrared Sensors	Dräger PID sensors
Measurement technology	Electrochemical	Electrochemical	Catalytic bead	Infrared	Photo ionization
Used in device	Single gas: Dräger Pac® 6x00/8x00 Multi gas: Dräger X-am® 2500/5000/5600 Dräger X-am® 2800/5800* Dräger X-am® 3500/8000	Single gas: Dräger X-am® 5100	Multi gas: Dräger X-am® 2500, 5000/ 3500, 8000 (CatEx 125 PR) Dräger X-am® 2800/5800* (CatEx SR)	Multi gas: Dräger X-am® 5600/ 8000 (IR ES series) Dräger X-am® 5800* (XD-IR series)	Multi gas: Dräger X-am® 8000 (PID HC + LC) Dräger X-am® 5800* (PID HC neo)
Application					
Ex			●	●	
Ox	●				
Tox	●	●			●
Carcinogenic	● ¹	● ²			●

¹ OV sensors

² N₂H₄

* Please contact Dräger for availability of the sensors.

Calibration and bump testing

More efficiency in daily routine

Our calibration and bump test stations make your work easier and speed up your work processes. The Dräger X-dock® series also gives you full control over your portable Dräger gas detectors. Automatic bump tests and calibrations with reduced test gas consumption and short test duration save time and money. Comprehensive documentation and evaluations in Gas Detection Connect provide you with a clear overview.

D-24997-2020



Dräger Bump Test Station

- Function tests with test gas cylinder
- Does not need power for operation
- Dräger Pac Series and Dräger X-am 2/5x00 are supported*

D-2745-2018



Dräger X-dock® 5300/6300/6600

- Automatic bump tests and calibrations
- Reduced test gas consumption, short testing times
- Quick test with gas supply time of under 10 seconds for most standard gases
- Available in a wide variety of versions
- Dräger Pac and Dräger X-am series are supported
- Stores data; more detailed data via Dräger Gas Detection Connect



	Dräger Bump Test Station	Dräger X-dock® 5300	Dräger X-dock® 6300	Dräger X-dock® 6600
Highlights				
Gas inlets	1	3	3	6
Gas flow	0,5 l/min	0,3 l/min	0,3 l/min	0,3 l/min
Max. number of connected modules		1	10 *1	10 *1
Technical Data				
Ethernet connection		●	●	●
Power supply	No power required	12 V / 100–240 V	12 V / 100–240 V	12 V / 100–240 V
System compatibility				
Dräger Pac® 6x00/8x00	●	●	●	●
Dräger X-am® 2500/2800/5000/5600/5800*	●	●	●	●
Dräger X-am® 3500/8000		●	●	●
Dräger Gas Detection Connect		●	●	●
Features				
Colour touch screen		●	●	●
Automated configuration of devices		●	●	●
Documentation of testing		●	●	●
Bump tests	●	●	●	●
Span calibration	● *2	●	●	●
Printer support (e.g creation of test certificates)		●	●	●
Reports / Fleet management		With Dräger Gas Detection Connect	With Dräger Gas Detection Connect	With Dräger Gas Detection Connect

*1 Maximum five Dräger X-am® 8000 modules

*2 Optional after failed test



Dräger-Tubes® / MicroTubes

Measuring accuracy with long tradition

For over eight decades, Dräger has been the leading supplier to perfect the 'laboratory behind glass'. Dräger Tubes® detect gases, vapours and aerosols quickly and economically. The new Dräger X-act® 7000 analysis system consisting of Dräger MicroTubes and an analyser enables precise gas measurement in the lower ppb range. The handling is very simple: insert the Dräger MicroTubes, start the measurement and read the result.

ST-36-2001



Dräger Short-term Tubes

- Gas detection of more than 500 gases
- Tubes have already been calibrated
- Can be used with räger-Tube® pump accuro and X-act 5000 Basic

ST-1350-2004



Dräger Diffusion Tubes

- No pump required
- Diffusion process transports the contaminant molecules

ST-1376-2004



Dräger Sampling Tubes

- Analysis of the sample in a laboratory
- Measurement of of complex compounds and mixtures of substances possible

D-1604-2010



Dräger X-act® 5000 Basic

- Automatic tube pump
- For a high number of strokes, ideal for sampling tubes
- Display for clear readability of tube information
- Can be used in explosive areas

ST-2436-2003



Dräger Accuro®

- Manual tube pump
- For spot measurements
- Integrated stroke counter
- Easy to operate with one hand
- Can be used in explosive areas



D-3381-2019



Dräger X-act® 7000

- Microtubes analyser
- Lab quality measurement in ppb range
- Easy to use; pre-calibrated MicroTubes
- With coupler and X-pump suitable for CSE

Dräger X-act® 7000

Highlights

Measurable gases

Different gases and vapours

Application area

PAM / CSE

Technical data

Temperature range (device)

0°C to 40°C

Ex approval

Zone 0

Degree of protection (IP class)

IP 54

Sensor technology

CMOS Sensor Optic und LED Light

Storage of all relevant data

RFID tag

System compatibility

Dräger X-am® pump

●

Probes and hoses

●

Features

Pre-calibrated MicroTubes

●

Automatically MicroTube transport

●



ST-1362-2004



Dräger Simultaneous Test Set

- Parallel measurement of five gases
- Air is simultaneously drawn with a Dräger-Tube pump
- For different combinations of organic and inorganic gases
- Several tubes test sets available

ST-6756-2006



Dräger Fumigation Test Set

- Tubes set
- Checking for the presence of fumigation agents
- For e.g. formaldehyde methyl bromide, hydrogen phosphorous and sulphuryl fluoride and other substances



D-3381-2019



Dräger Aerotest

- Several systems available
- Analysis of impurities according to EUP (European Pharmacopeia)
- Both in low-pressure and high-pressure systems
- Purity measurement of supplied breathing air e.g. from compressors or compressed gas cylinders

	Dräger Aerotest Alpha	Dräger Multitest med Int.a	Dräger Simultan-test CO ₂	Dräger Aerotest Simultan HP	Dräger Aerotest Navy
Substance					
Carbon dioxide	●	●		●	●
Carbon monoxide	●	●	●	●	●
Water vapour	●	●	●	●	●
Oil	●	●		●	●
Nitrous fumes		●	●		
Sulphur dioxide		●	●		
Ammonia			●		
Phosphine			●		
Hydrogen sulphide		●	●		
Oxygen 5%/C					●

Dräger Cloud Solutions

Asset management & Live monitoring

With the future-proof, cloud-based software solution Dräger Gas Detection Connect, you can efficiently manage your equipment and increase your safety in the working environment. The connected Dräger X-dock test station automatically stores all test and device data in the central cloud backend. With the Dräger Pac® and Dräger X-am® 2800 devices connected via Bluetooth, locations, live data as well as alarms can be forwarded, displayed and stored directly to Dräger Gas Detection Connect

D-5238-2023



Dräger Gas Detection Connect

- Software solution
- Asset management & live monitoring
- Data exchange via cloud backend
- Increased efficiency and safety

Dräger Gas Detection Connect

Highlights

Software-as-a-Service (SaaS) System

Application area

Technical Data

Components

Devices for Live Monitoring

Installation

Supported browser

Supported App Stores

Backend

Encryption

Data centre

Service

24/7 service hotline

Unlimited data storage

Software upgrades (new features)

Bug fixing/Updates

Automatic backups

Firmware distribution

Live data transmission of device data and alarms via a smartphone app to the cloud backend, direct data transmission from the test station X-dock, data availability regardless of time and location

Testing, documenting and storing gas detection devices and their data, monitoring measured values and persons in hazardous areas

Web application (access via browser), smartphone app, cloud backend

Dräger X-dock, Dräger Pac 6500, 8000, 8500, X-am 2800

No installation of the software necessary

Google Chrome

iTunes Store (iOS), Google PlayStore (Android)

Microsoft Azure Cloud

HTTPS, TLS 1.2 (Data security sheet available)

Data is stored in the EU (GDPR applies)

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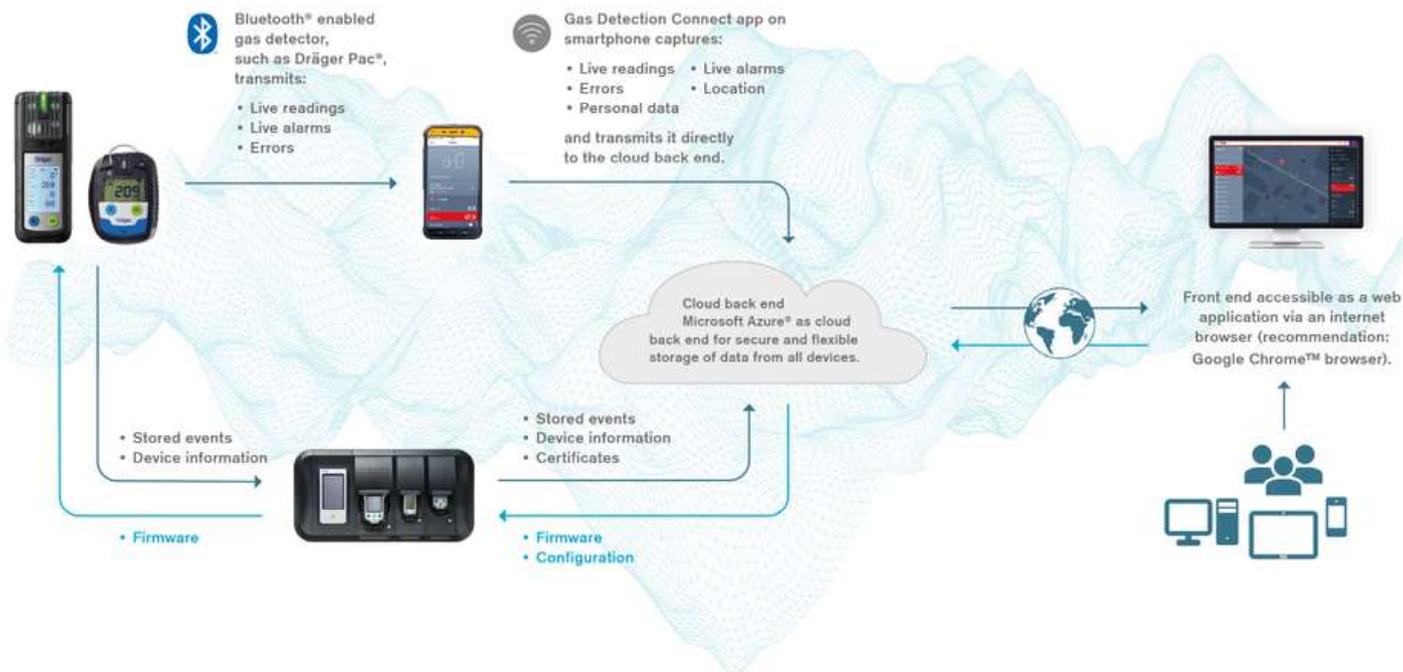
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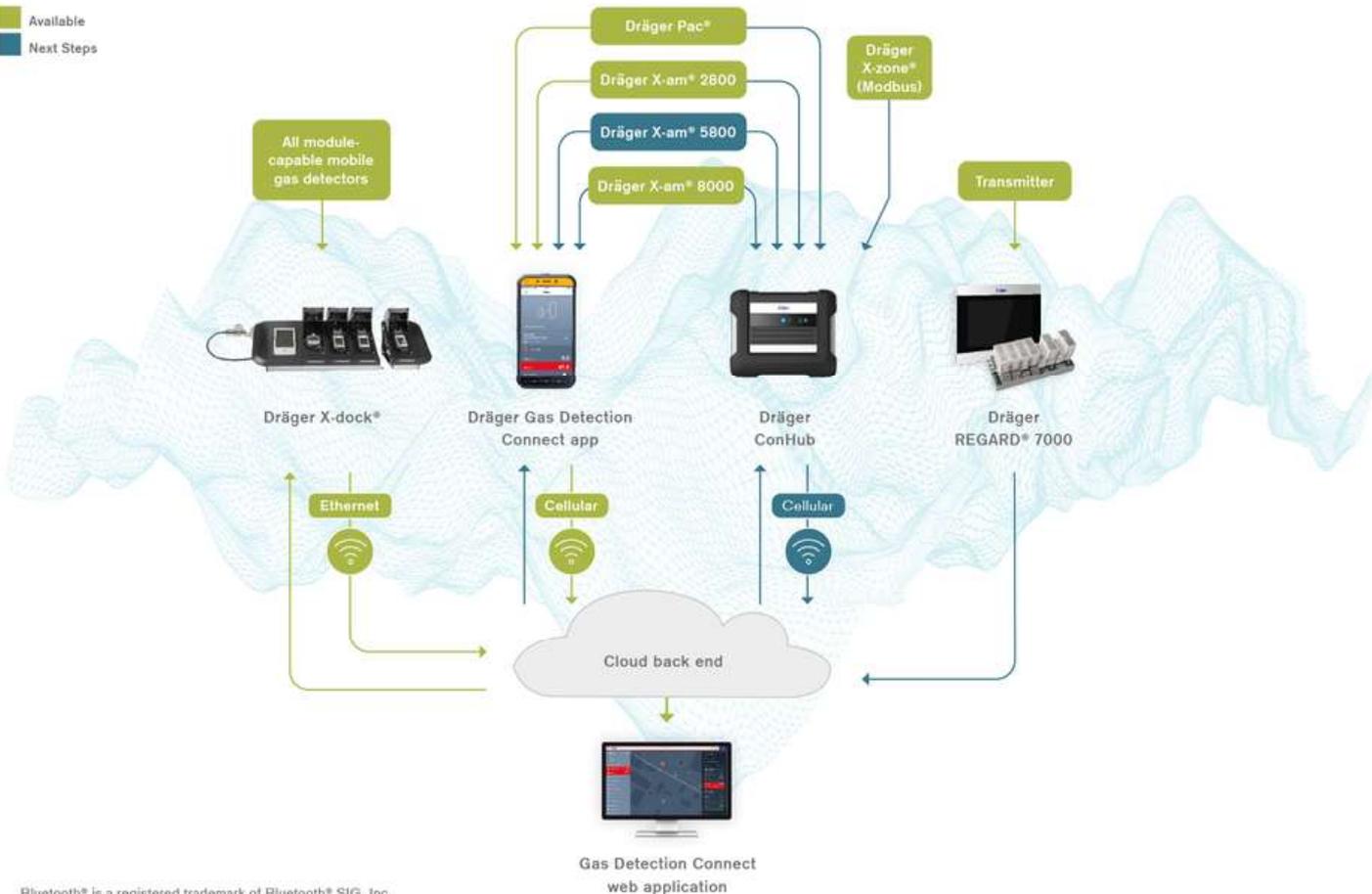
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■ Available
■ Next Steps



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Dräger Software Solutions

Analysis and documentation of data

With software from Dräger you get a deep insight into your measurement results from portable gas detectors and Dräger tubes. These can be specifically evaluated, analysed and archived. In addition, you are optimally supported in the configuration and maintenance of your devices as well as the training of users.

D-35437-2015



Dräger CC-Vision Basic

- Software for professional configuration and calibration
- Documentation of calibration results
- Useable with Dräger Pac family, X-am series, X-zone 5X00 and X-act 7000
- Free of charge

D-35437-2015



Dräger GasVision

- Data analysis software for data loggers
- Regards real time measurements
- Within the Dräger Pac and X-am series



D-8146-2019



Dräger Gas Detection Training App

- Supports realistic training and instruction
- Compatible with Pac® and X-am® series
- For IOS and Android
- Free of charge

DGT-1133-2017



Dräger Tubes App

- Record, archive and evaluate tube measurements
- Forwarding of data possible
- For IOS and Android
- Free of charge

Dräger Voice

The Hazmat-based safety product finder

The new Dräger VOICE provides you with basic information on important hazardous substances and the related safety solutions. Hazmat expert knowledge for you – try it yourself!

www.draeger.com/VOICE

