

Dräger Pac 8500
Single-Gas Detector

The Dräger Pac 8500 single-gas detection device is a reliable and precise instrument even under the toughest of conditions. Measured data can easily be transmitted into the Dräger Gas Detection Connect system via Bluetooth®. The device can be equipped with a hydrogen-compensated CO sensor or a Dräger dual sensor. This gives you the option of measuring two gases at once: H_2S with CO, H_2S with O_2 or O_2 with CO.

Dräger

Technology for Life

Dräger Pac 8500

Easy fastening with tightly closing crocodile clip

Illuminating D-Light shows device is tested and ready for use

Robust and lightweight design for long wear in tough conditions

Clear colour coding prevents mistakes



Easily replaceable filter membrane protects the sensor

Large and language free display shows all important information

360° alarm signal can be easily seen from all sides

Benefits

Strong performance for maximum safety

You can count on the Dräger Pac 8500 to give you reliable, precise readings at any time even under extreme conditions. Our powerful sensors with a low t-90 response time ensure quick reactions. In addition to the standard alarms, you can define extra alarm thresholds for TLV®/TWA* and STEL*.

The Pac 8500 also provides a data and event logger for logging concentrations and events along with the date and time. The data can be loaded on a PC via an interface and processed further there. With the new Gas Detection Connect system – and thus the integrated X-dock stations – you can view and download the logs from a central cloud-based asset management system. Available anytime from anywhere.

*TLV®/TWA = Threshold Limit Values / Time Weighted Average, STEL = Short Term Exposure Limit

Convert to two-gas detection device using a dual sensor

Your single-gas detection device can become a two-gas device when a dual sensor is used. The Dräger Pac 8500 series offers the following sensor combinations: hydrogen sulphide with carbon monoxide, oxygen with carbon monoxide or hydrogen sulphide with oxygen. Dual sensors enable detection of even low concentrations – and all in one and the same handy device. Measuring two gases at the same time reduces downtime as well. You can take vol.% measurements of oxygen and ppm measurements of carbon monoxide simultaneously using just one sensor.

Measurement of carbon monoxide with significantly reduced cross sensitivity

In industries where carbon monoxide needs to be measured with hydrogen as a background gas, the measured value for carbon monoxide may be falsified by cross sensitivity. Thanks to the special hydrogen-compensated CO sensor from Dräger, this cross sensitivity to hydrogen is significantly reduced in the display of carbon monoxide.

Robust design – even for the toughest conditions

The Pac 8500 can easily handle even extreme conditions. The sensors can tolerate air pressures between 700 and 1,300 mbar. A membrane filter protects the sensor from foreign matter such as dust and liquids. The shock-proof, chemical-resistant housing meets the requirements specified in the IP68 standard rating.

Easy handling thanks to clear user guidance

The D-Light indicates whether functionality of the device has been tested and if it is ready to use. The housing is also designed with your safety in mind: each sensor variant of the Dräger Pac 8500 features clearly visible colour coding, thereby minimising the chance of mistakes.

User-friendly display with all important information

The large display is word-free and clearly indicates the respective gas concentration. Other important information, such as the unit of concentration and battery capacity, is also displayed. The bright backlighting ensures that all values are clearly legible in the dark.

Benefits

360° alarm with various functions

If the Dräger Pac 8500 measures hazardous gas concentrations, it sets off an audible, visual and perceptible vibrating alarm. Two bright, flashing LEDs on the top and bottom of the device ensure that the alarm is easily visible from all sides. The acoustic signal reaches a volume of 90 dB. The display can show the peak concentration measured at any given moment. Earlier alarms registered can also be retrieved at a later time even if they have been acknowledged.

The Pac 8500 with oxygen sensor has two additional alarm thresholds in addition to the standard alarm threshold settings.

Data logger and event logger for analyses and reports

The Pac 8500 logs concentrations and events along with date and time. The data can easily be transferred to a computer for further processing. With the new Gas Detection Connect system – and thus the integrated X-dock stations – you can view and download the logs from a central cloud-based asset management system. Available anytime from anywhere.

Bluetooth® communication

With the Bluetooth® enabled Pac you can wirelessly transmit live measurement values into the Dräger Gas Detection Connect system. You can easily track the location of the worker and their Pac by connecting the device to the Gas Detection Connect gateway app. Additionally, you can communicate with the Gas Detection Connect system via the Dräger ConHub explosion-proof gateway. Dräger Pac devices can be integrated into third party applications via OpenGATT protocol.

Economical operating costs

All of the versions of the Dräger Pac 8500 are equipped with extremely durable DrägerSensors and a powerful battery. The Pac 8500 is protected against water, dust and other foreign bodies by a special membrane filter. When the filter becomes heavily soiled in use, you can quickly and easily replace it yourself. The device is then ready to use again right away. Thanks to the powerful battery, the Pac does not require charging on a daily basis and is easy to handle.

Fast function test saves time and money

Function tests and calibrations can be carried out especially efficient in the Dräger X-dock calibration station. The automatic bump tests in the X-dock are a cost-efficient and convenient solution thanks to the short test duration and the extremely low consumption of test gas. The Pac 8500 is simply placed in the bump test station and automatically selects the correct setting.

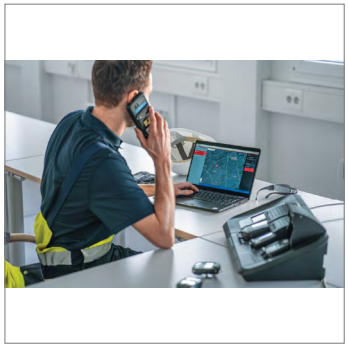
Dräger Pac product range at a glance

	 Dräger Pac 6000	 Dräger Pac 6500	 Dräger Pac 8000	 Dräger Pac 8500
Limited operating time (2 years)[1]	•			
Unlimited operating time		•	•	•
Service life indicator	•	(•)[2]	(•)[2]	(•)[2]
Temperature to -40 °C	•[3]	•[3]	•[3]	•[3]
Battery capacity indicator	•	•	•	•
Replaceable sensor grid	•	•	•	•
Peak	•	•	•[4]	•
TLV®/TWA[5]		•	•	•
STEL[6]		•	•	•
Event logger	•	•	•	•
Data logger	•	•	•	•
Bluetooth®/Open GATT option		•	•	•
Standard gases	•	•		
Special gases			•	
Dual sensor				•

[1] Lifetime extension available [2] Configurable [3] Briefly down to -40 °C for 1 hr, depending on sensor [4] Does not apply to ozone or phosgene
[5] TLV® = Threshold Limit Values / TWA = Time Weighted Average [6] STEL = Short Term Exposure Limit

pac-productfamily-en-master

System Components



D-40484-2021

Gas Detection Connect

Dräger Gas Detection Connect takes you into the future of digitally supported occupational safety. The system connects individual Dräger products via an intelligent software solution. It enables access from anywhere and at any time, allowing you to monitor and maintain your devices effectively and stay informed at all times about the location and status of your gas detectors and staff. This enables you to protect your workforce and your facility whilst simultaneously boosting the efficiency of your operations.



D-47907-2012

Dräger X-dock 5300/6300/6600

The Dräger X-dock series provides you with full control of your portable Dräger gas detection instruments. Automatic bump tests and calibrations with reduced test gas consumption and short testing times save time and money. Comprehensive documentation and evaluations provide you with a clear overview.



D-24997-2020

Dräger Bump Test Station

Easy function testing on site



D-0494-2018

Test gases and accessories

Everything according to regulations: for the safe operation of devices, it is necessary to comply with directives and legal regulations. Regular calibrations and functional tests are therefore necessary. Various systems support you in this.

System Components



D-35438-2015-D-35437-2015

Dräger CC-Vision & Dräger Gas-Vision

PC software for setting parameters, testing, adjusting and reading out data from the data logger.



D-12779-2023

Dräger ConHub

Automated area monitoring gives you maximum safety with a minimal workload. The explosion-proof Dräger ConHub serves as a gateway that automatically connects your Dräger gas detectors from any location to Dräger Gas Detection Connect, our live monitoring solution. This helps you monitor vulnerable areas more closely, so you get the most out of your gas detection system, while also improving safety at your location.



ST-5018-2005

Communication module

The communication module (including a USB cable) connects the device to configuration and analysis software. It is also used for manual bump testing and calibration. The test gas is supplied to the Pac device through the gas inlet or outlet.

Services



D-2330-2016

Rental service

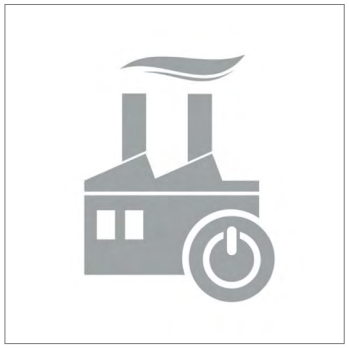
From bridging a temporary shortage of equipment to procuring special equipment for applications involving specific requirements: if you only need to cover a temporary higher demand, then Dräger Rental Service with over 65,000 pieces of rental equipment is an economical alternative to purchasing. Fast, straightforward and with a wide range of additional services available upon request.



D-2334-2016

Finance service

High-quality solutions for every budget: Cutting-edge equipment gives you a competitive edge. We help you make cost-effective investments with attractive financing options that ease budget constraints and increase financial flexibility. Dräger Finance Service has different models for different requirements. Whether you want to rent-to-buy or lease equipment, together we can find the right solution for you.



D-2329-2016

Shutdown Safety Service

In need of a comprehensive safety solution? Is there a long list of legal requirements you have to meet, and are you pressed for time? Balancing maximum efficiency with optimal security can pose major challenges. We help you create this balance. Our Shutdown Safety Service takes account of all the requirements for a shutdown, particularly your specific needs.



D-2332-2016

On-site safety service

Whether through a rental shop, personnel services or comprehensive safety management, our On-Site Safety Services provide support in all projects where there are particular safety risks – not to mention normal day-to-day business.

Related Products



D-16271-2024

Dräger Pac 6000

The disposable personal single-gas detection device, Dräger Pac 6000, measures CO, H_2S, SO_2 or O_2 reliably and precisely, even under the toughest conditions. Its robust design, fast sensor response times and powerful battery ensure maximum safety for up to two years with virtually no maintenance required. After the initial two-year period, the device's lifetime can be extended through the purchase of an appropriate license.



D-16279-2024

Dräger Pac 6500

The robust Dräger Pac 6500 is your reliable companion in tough conditions. The personal single-gas detector quickly and accurately measures CO, H_2S, SO_2 or O_2 levels. The measurement data can be easily transferred via Bluetooth® to the Dräger Gas Detection Connect system. Fast sensor response and a long-lasting battery enhance safety.



D-16293-2024

Dräger Pac 8000

With the robust Dräger Pac 8000, you'll be well equipped for tough conditions: this non-disposable, personal single-gas detection device is a reliable and precise instrument, which detects hazardous concentrations of 29 different gases, including special gases like NO_2, O_3 or $COCl_2$. Measured data can easily be transmitted into the Dräger Gas Detection Connect system via Bluetooth®.

Technical Data

Dräger Pac 8500		
Dimensions (without clip) W x H x D	64 x 84 x 20 mm	
Weight	Approx. 106g (113g with crocodile clip)	
Battery service life	Dual sensors without O_2: 12 months, with O_2: 10 months	
Degree of protection	IP68	
Air pressure	700 to 1,300 hPa	
Air humidity	10 to 90 % relative humidity, non-condensing	
Temperature	-30 °C to +55 °C (briefly down to -40 °C for 1 hr, depending on sensor)	
Approvals	ATEX	I M1 Ex ia I Ma II 1G Ex ia IIC T4 Ga
	IECEx	Ex ia I Ma Ex ia IIC T4 Ga
	CSA (Canada & USA)	Class I, Zone 0, AEx ia IIC T4 Ga Class II, Division 1, Groups E, F, G
	EAC	PO Ex ia I Ma X 0Ex ia IIC T4 Ga X

Ordering Information

Dräger Pac 8500

Description	Measuring range	Alarm thresholds A1/A2	Order number
Dräger Pac 8500 H_2S/CO	0 – 100 ppm H_2S 0 – 2,000 ppm CO	5 / 10 ppm H_2S 30 / 60 ppm CO	8326365
Dräger Pac 8500 O_2/CO	0 – 25 Vol.-% O_2 0 – 2,000 ppm CO	19 / 23 Vol.-% O_2 30 / 60 ppm CO	8326366
Dräger Pac 8500 CO-H_2 CP	0 – 2,000 ppm	30 / 60 ppm	8326367
Dräger Pac 8500 H_2S/O_2	0 – 100 ppm H_2S 0 – 25 Vol.-% O_2	5 / 10 ppm H_2S 19 / 23 Vol.-% O_2	3702251
Dräger Pac 8500	See above	As per customer request	8326343
Bluetooth® communication protocol (GATT license) for subsequent activation			
Dräger Pac Open GATT license (1 pc.)		3721647	
Dräger Pac Open GATT license (10 pc.)		3721648	
Dräger Pac Open GATT license (50 pc.)		3721649	

Ordering Information

Communication accessories	
Calibration adapter	8318588
Dräger X-dock 5300 Pac	8321881
Dräger Bump Test Station for Dräger Pac, without gas cylinder	8317410
Dräger Bump Test Station for Dräger Pac, including one test gas cylinder (selectable gas and concentration)	8318586
Dräger CC-Vision Basic, available free of charge at www.draeger.com	
Communication module, including USB cable	8318587

Spare parts	
Battery	8326856
Sensor grid (silver)	8326852
Crocodile clip set	8319186

Dräger Gas Detection Connect	
One System. Fully Connected: Gas Detection Connect (GDC) is a cloud-based SaaS (Software as a Service) solution that enables efficient management of your gas detection devices as well as live monitoring with alarms and events.	
GDC Configurator Standard includes: Annual configurable license, unlimited data storage	3740515
GDC Enterprise License includes: Annual license, customised license for complex systems	3739675

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Bluetooth® is a registered trademark of Bluetooth® SIG, Inc.

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