

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: H₂S/CO, H₂S/O₂, and CO/O₂



Dräger Pac 8500



Benefits

Single-gas detector

- · for personal air monitoring
- Detection of two gases at once with a dual sensor for O₂ / CO, H₂S / O₂ or H₂S / CO
- Use with a hydrogen-compensated CO sensor possible
- non-disposable

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 or oxygen with carbon monoxide. 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 color coding, thereby minimising the chance of mistakes.

Benefits

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.

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 Dräger 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 new 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. 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 Config	gurable ³ Briefly down to -40) °C for 1 hr, depending on se	nsor ⁴ Does not apply to ozo	one or phosgene

'Lifetime extension available 'Configurable 'Briefly down to -40 °C for 1 hr, depending on sensor "I 5 TLV" = Threshold Limit Values/TWA = Time Weighted Average 'STEL = Short Term Exposure Limit

System Components



DrägerSensor XXS

Dräger has developed miniature electrochemical sensors specially for the Dräger Pac, X-am 1/2/5 and X-am 8000 generation. The sensors detect many different gases and vapours. They are also very reliable and stable over the long-term, thereby reducing your operating costs.



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.



Dräger Bump Test Station

Easy function testing on site

Accessories



Dräger Configuration and Evaluation Software

Save measurement results, professionally configure gas detection instruments and viewing performance data – all that is possible with the tailor-made Dräger software.



Calibration gas and accessories

Calibration of equipment will ensure safe operation and functionality of equipment and will also meet with the applicable regulations and codes of practice. Various calibration gas options are easily available.



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



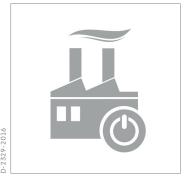
Rental service

Whether you need to cover a temporary shortage or require specialised equipment for demanding conditions, for short-term needs, Dräger Rental Service provides a cost-effective solution with over 65,000 devices available. It's quick, simple and comes with a wide range of additional services upon request.



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.



Shutdown Safety Service

Looking for an all-in-one safety solution? Are you facing strict regulatory requirements with tight deadlines? Balancing maximum efficiency with optimal security can pose major challenges. We can help you achieve that balance. Our Shutdown Safety Service is designed to cover all aspects of downtime while catering to your specific requirements.



On-site safety services

Whether through a rental shop, personnel services or comprehensive safety management, our on-site safety services support projects with increased safety risks, as well as everyday operations.

Related Products



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 in the toughest conditions. The robust design, quick sensor response times, and a powerful battery ensure maximum safety for up to two years with virtually no maintenance required.



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.



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 NO₂, O₃ or COCl₂. Measured data can easily be transmitted into the Dräger Gas Detection Connect system via Bluetooth®.

Technical Data

Dräger Pac® 8500

nces, 113 g with clip) .2 months, with O ₂ : 10 months)				
.2 months, with O ₂ : 10 months)				
700 to 1,300 hPa				
10 to 90 % relative humidity, non-condensing				
-30 °C to +55 °C (briefly down to -40 °C for 1 hr, depending on sensor)				
I M1 Ex ia I Ma II 1G Ex ia IIC T4 Ga				
Ex ia I Ma Ex ia IIC T4 Ga				
Class I, Zone 0, AEx ia IIC T4 Ga Class II, Division 1, Groups E, F, G				
PO Ex ia I Ma X 0Ex ia IIC T4 Ga X				
-				

Ordering Information

Dräger Pac® 8500

Description	Measuring range	Alarm thresholds A1/A2	Bluetooth	Order number
Dräger Pac® 8500 H₂S/CO	0 - 100 ppm H ₂ S 0 - 2,000 ppm CO	5 / 10 ppm H ₂ S 30 / 60 ppm CO	VN01552	83 26 365
Dräger Pac® 8500 O₂/CO	0 – 25 Vol% O ₂ 0 – 2,000 ppm CO	19 / 23 Vol% O ₂ 30 / 60 ppm CO	VN01553	83 26 366
Dräger Pac® 8500 CO-H ₂ CP	0 – 2,000 ppm	30 / 60 ppm	VN01554	83 26 367
Dräger Pac® 8500 H ₂ S/O ₂	0 - 100 ppm H ₂ S 0 - 25 Vol% O ₂	5 / 10 ppm H ₂ S 19 / 23 Vol% O ₂	VN01555	37 02 251
Dräger Pac® 8500	See above	As per customer request		83 26 343
Bluetooth® communication pro	tocol (GATT licence) for			
Dräger Pac® Open GATT licenc	e (1 pc.)	37 21 647		
Dräger Pac® Open GATT licenc	e (10 pc.)	37 21 648		
Dräger Pac® Open GATT licenc	e (50 pc.)	37 21 649		

Communication accessories

83 18 588
83 21 881
83 17 410
eger.com
83 18 587
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Spare parts

Battery (purple)	83 26 856	
Sensor grid (silver)	83 26 852	
Crocodile clip set	83 19 186	

Notes

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