

## Dräger Pac® 8000 Single-Gas Detection Device

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<sub>2</sub>, O<sub>3</sub> or COCl<sub>2</sub>.



## Benefits

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### Strong performance for maximum safety

You can count on the Dräger Pac 8000 to give you reliable, precise readings at any time even in 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\*\* and STEL\*.

\* TLV® = Threshold Limit Values, STEL = Short Term Exposure Limit

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### Sensors for special gases

The Pac 8000 can be fitted with sensors for carbon dioxide (CO<sub>2</sub>), chlorine gas (Cl<sub>2</sub>), hydrogen cyanide (HCN), ammonia (NH<sub>3</sub>), nitrogen dioxide (NO<sub>2</sub>), phosphine (PH<sub>3</sub>) and organic vapours (OV or OV-A).

The Dräger Pac 8000 performs especially well when detecting different special gases: it can detect ozone (O<sub>3</sub>) from concentrations as low as 0.02 ppm and phosgene (COCL<sub>2</sub>) from 0.01 ppm. The Pac 8000 detects nitrogen dioxide (NO<sub>2</sub>) from concentrations as low as 0.04 ppm.

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### Robust design – even for the toughest conditions

The Pac 8000 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.

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### Easy handling thanks to clear user guidance

The D-Light indicates whether functionality of the device has been tested and that it is ready to use. The housing is also designed with your safety in mind: each sensor variant of the Dräger Pac 8000 features clear, well visible colour coding, thereby minimising the chance of mistakes.

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### User-friendly display with all important information

The large display is non-verbal 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 can be clearly read off in the dark.

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### 360° alarm with various functions

If the Dräger Pac 8000 measures hazardous gas concentrations, it sets off an audible, visual and noticeable 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

## Benefits

concentration measured at any given moment. Earlier alarms registered can also be retrieved at a later time even if acknowledged.

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### Data logger and event logger for analyses and reports

The Pac 8000 logs concentrations and events along with date and time. The data can be downloaded to a PC via an interface and processed further there.

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### Economical operational costs

All of the versions of the Dräger Pac 8000 are equipped with extremely durable Dräger sensors® and a powerful battery.





The Pac 8000 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 in no time.

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### Fast function test saves time and money

Function tests and calibrations can be carried out especially efficiently in the Dräger X-dock® calibration station. The automatic bump tests in the X-dock are a cost-efficient and convenient solution thanks to short test duration and the extremely low test gas consumption. The Pac 8000 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)	•			
Unlimited operating time		•	•	•
Service life indicator	•	(•) <sup>1</sup>	(•) <sup>1</sup>	(•) <sup>1</sup>
Temperature to -40°C	•	•		
Battery capacity indicator	•	•	•	•
Replaceable sensor grid	•	•	• <sup>2</sup>	•
Peak	•	•	•	•
TLV <sup>3</sup>		•	•	•
STEL <sup>4</sup>		•	•	•
Event logger	•	•	•	•
Data logger		•	•	•
Standard gases	•	•		
Special gases			•	
Dual sensor				•

<sup>1</sup>Configurable                      <sup>3</sup>TLV\* = Threshold Limit Values  
<sup>2</sup>Does not apply to ozone or phosgene      <sup>4</sup>STEL = Short Term Exposure Limit

## System Components



D-12191-2010

### DrägerSensor XXS

Dräger has developed miniature electrochemical sensors specially for the Dräger Pac® and X-am® 1/2/5 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.

## System Components



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.



ST-740-2006

### Dräger Bump Test Station

Easy to use, stand-alone and portable. With the Bump Test Station, functionality tests of gas detection and warning devices can be carried out easily and quickly.

## Accessories



D-30746-2015

### 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.

## Accessories



### Calibration gas and accessories

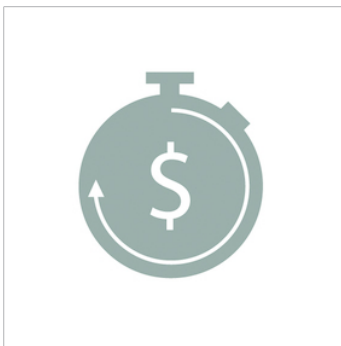
Calibration of equipment will ensure safe operation and functionality of equipment and will also meet with the applicable regulations and codes of practice. Various calibration options are available to provide this facility.



### Communication module

The communication module (including USB cable) is used to connect the equipment to the configuration and evaluation software. The module is also used for the manual bump test or manual calibration. The test gas is introduced to the Pac device through the gas inlet or outlet.

## Services



### 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.

## Services

D-2334-2016



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### Finance Service

Quality for every budget: State-of-the-art instruments and equipment are a key competitive factor. We help you implement investments in a financially effective manner: with attractive procurement options that increase your financial leeway, relieve the pressure on budgets and give you greater flexibility. Dräger Finance Service offers various options for different requirements. Whether rent-to-buy or leasing – we will work with you to find the right solution.

D-2329-2016



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### Shutdown Safety Service

You need a comprehensive safety technology solution which equips you optimally for your project. You have to comply with many different legal requirements – even under intense time pressure. A potential conflict could arise between maximum efficiency and the highest possible degree of safety. We help you to establish a balance: Our Shutdown Safety Service is a solution which takes into account all of the requirements for a shutdown, and your individual needs in particular.

D-2332-2016



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### On-site Safety Service

Rental shop, personnel services or comprehensive safety management: Our on-site safety services provide you with support for all projects involving special safety challenges – and of course also during your day-to-day operations.

## Related Products



D-4877-2017

### Dräger Pac® 6000

The disposable personal single-gas detection device, Dräger Pac® 6000, measures CO, H<sub>2</sub>S, SO<sub>2</sub> or O<sub>2</sub> 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.



D-4887-2017

### Dräger Pac® 6500

The robust Dräger Pac® 6500 is your reliable companion under tough conditions. The personal single-gas detection device measures CO, H<sub>2</sub>S, SO<sub>2</sub> or O<sub>2</sub> quickly and precisely. Quick sensor response times and a powerful battery also ensure safety.



D-4996-2017

### Dräger Pac® 8500

The Dräger Pac 8500® single-gas detection device is a reliable and precise instrument even under the toughest of conditions. 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: either H<sub>2</sub>S with CO or O<sub>2</sub> with CO.



## Technical Data

Dräger Pac® 8000	
Dimensions (without clip) (W x H x D)	64 x 84 x 20 mm
Weight	Approx. 106 g (113 g with clip)
Battery service life	Min. 2 years (O <sub>2</sub> and dual sensors min. 12 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	cCSA <sub>US</sub> , IECEx, ATEX, CE

## Ordering Information

### Dräger Pac® 8000

Description	Measuring range	Alarm thresholds A1 / A2	Order number
Dräger Pac® 8000 NO	0 – 50 ppm	25 / 50 ppm	83 26 350
Dräger Pac® 8000 CO <sub>2</sub>	0 – 5 Vol. %	0.5 / 1 Vol. %	83 26 351
Dräger Pac® 8000 Cl <sub>2</sub>	0 – 20 ppm	0.5 / 1 ppm	83 26 352
Dräger Pac® 8000 HCN	0 – 50 ppm	1.9 / 3.8 ppm	83 26 353
Dräger Pac® 8000 NH <sub>3</sub>	0 – 300 ppm	20 / 40 ppm	83 26 354
Dräger Pac® 8000 PH <sub>3</sub>	0 – 20 ppm	0.1 / 0.2 ppm	83 26 355
Dräger Pac® 8000 OV	0 – 200 ppm	10 / 20 ppm	83 26 356
Dräger Pac® 8000 OV-A	0 – 200 ppm	10 / 20 ppm	83 26 357
Dräger Pac® 8000 NO <sub>2</sub>	0 – 50 ppm	5 / 10 ppm	83 26 358
Dräger Pac® 8000 Ozone	0 – 10 ppm	0.1 / 0.2 ppm	83 26 359
Dräger Pac® 8000 Phosgene	0 – 10 ppm	0.1 / 0.2 ppm	83 26 360
Dräger Pac® 8000/8500	As per customer request	As per customer request	83 26 342

### Calibration accessories

Calibration adapter	83 18 588
Dräger X-dock® 5300 Pac	83 21 881
Dräger Bump Test Station for Dräger Pac®, without gas cylinder	83 17 410
Dräger Bump Test Station for Dräger Pac®, including one test gas cylinder (gas and concentration selectable)	83 18 586

### Communication accessories

Dräger CC-Vision Basic, available free of charge at <a href="http://www.draeger.com">www.draeger.com</a>	
Communication module, including USB cable	83 18 587

### Replacement parts

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

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## Notes

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