

**Ribble Enviro**  
*...everything gas detection*

# Data Sheet

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## Dräger Pac® 6000 Single-Gas Detector

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.



## Benefits

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### Single-gas detector

- for personal air monitoring
  - detection of carbon monoxide, oxygen, hydrogen sulphide or sulphur dioxide
  - time-limited up to two years
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### Strong performance for maximum safety

You can rely on the Dräger Pac 6000: The personal single gas detection device warns against hazardous concentrations of carbon monoxide, hydrogen sulphide, sulphur dioxide or oxygen with precision and reliability.

Powerful sensors with a very low t-90 response time ensure quick reactions. The Pac 6000 is versatile thanks to its wide measurement range. For example, the CO sensor measures concentrations from 1 to 1,999 ppm, and the H<sub>2</sub>S sensor from 0.4 to 100 ppm.

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### Easy handling thanks to clear user guidance

The D-Light indicates whether the 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 6000 features a clear, well visible colour coding, thereby minimising the chance of mistakes.

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### Robust design – even for the toughest conditions

The Pac 6000 can easily handle even extreme conditions: depending on the sensor, temperatures from -40 °C to 55 °C and air pressures between 700 and 1,300 mbar can be tolerated.

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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### 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 remaining operating time and battery capacity, is also displayed. The bright backlighting ensures clear reading of all values in the dark.

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### 360° alarm with various functions

If the Dräger Pac 6000 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 alarm 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 acknowledged.

## Benefits

The Pac 6000 with oxygen sensor has two additional alarm thresholds in addition to the standard alarm threshold setting.

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### Event logger for analyses and reports

The Dräger Pac 6000 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 Pac 6000 are equipped with extremely durable DrägerSensors® and a powerful battery. Neither the sensor nor the battery need to be changed for the entire two-year maintenance-free service life of the H<sub>2</sub>S, SO<sub>2</sub> and CO versions. The service life of the Dräger Pac 6000 starts when it is first activated. It automatically switches off after two years. For extending the operational lifetime, a license-model is available.

The Pac 6000 is protected against water, dust and other foreign bodies by a special membrane filter. When the filter becomes heavily soiled 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 efficient using 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 extremely low test gas consumption. The Dräger Pac 6000 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) <sup>1</sup>	•			
Unlimited operating time		•	•	•
Service life indicator	•	(•) <sup>2</sup>	(•) <sup>2</sup>	(•) <sup>2</sup>
Temperature to -40°C	• <sup>3</sup>	• <sup>3</sup>	• <sup>3</sup>	• <sup>3</sup>
Battery capacity indicator	•	•	•	•
Replaceable sensor grid	•	•	•	•
Peak	•	•	• <sup>4</sup>	•
TLV®/TWA <sup>5</sup>		•	•	•
STEL <sup>6</sup>		•	•	•
Event logger	•	•	•	•
Data logger	•	•	•	•
Bluetooth® / Open GATT option		•	•	•
Standard gases	•	•		
Special gases			•	
Dual sensor				•

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

## System Components



D-12191-2010

### 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.

## 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



D-0494-2018

### 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 easily available.



ST-5018-2005

### 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



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 DrägerRental 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

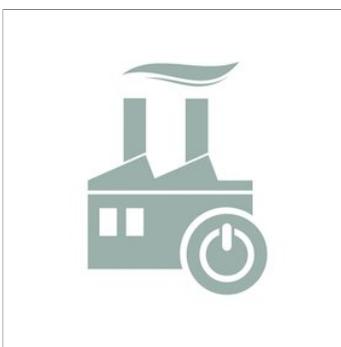


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### Finance Service

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

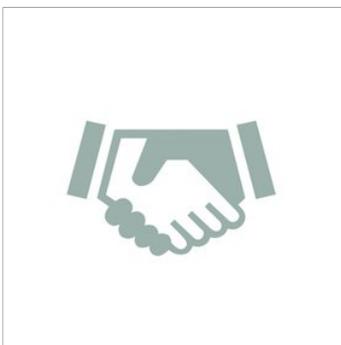


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### Shutdown Safety Service

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 can help you achieve that balance. Our Shutdown Safety Service is a solution that takes into account all the necessities of downtime and especially your individual requirements.

D-2332-2016



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### 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-46500-2021

### 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. Measured data can easily be transmitted into the Dräger Gas Detection Connect system via Bluetooth®. Quick sensor response times and a powerful battery also ensure safety.



D-46502-2021

### 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<sub>2</sub>, O<sub>3</sub> or COCl<sub>2</sub>. Measured data can easily be transmitted into the Dräger Gas Detection Connect system via Bluetooth®.



D-46510-2021

### Dräger Pac® 8500

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<sub>2</sub>S with CO, H<sub>2</sub>S with O<sub>2</sub> or O<sub>2</sub> with CO.

## Technical Data

### Dräger Pac® 6000

Dimensions (without clip) W x H x D	64 x 84 x 20 mm	
Weight	Approx. 106 g (113 g with clip)	
Device service life	2 years from first activation. Lifetime extension available.	
Battery service life	2 years (O <sub>2</sub> : 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® 6000

Description	Measuring range	Alarm thresholds A1/A2	Order number
Dräger Pac® 6000 CO	0 – 2,000 ppm	30 / 60 ppm	83 26 321
Dräger Pac® 6000 H <sub>2</sub> S	0 – 100 ppm	5 / 10 ppm	83 26 320
Dräger Pac® 6000 O <sub>2</sub>	0 – 25 Vol.-%	19 / 23 Vol.-%	83 26 322
Dräger Pac® 6000 SO <sub>2</sub>	0 – 100 ppm	0.5 / 1.0 ppm	83 26 323
Dräger Pac® 6000	See above	As per customer request	83 26 340
Pac® 6000 license lifetime extension			37 27 138

### 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

### Spare parts

Battery	83 26 856
Sensor grid (black)	83 26 853
Crocodile clip set	83 19 186

TLV® is a registered trademark of ACGIH®.

## Notes

Not all products, features, or services are for sale in all countries.  
Mentioned Trademarks are only registered in certain countries and not necessarily in the country in which this material is released. Go to [www.draeger.com/trademarks](http://www.draeger.com/trademarks) to find the current status.

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