

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. The detector can be equipped with a hydrogen-compensated CO sensor or a Dräger dual sensor. The dual sensors provide the option of measuring two gases at once: either H₂S with CO or O₂ with CO.



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^{®*} 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.

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

Two gas detection in a single-gas device

The Dräger Pac 8500 series offers the following sensor combinations: hydrogen sulfide with carbon monoxide or oxygen with carbon monoxide. Dual sensors enable detection of even low concentrations – 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 gas detector.

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. This new feature can eliminate the need to carry two different detectors.

Robust design – even for the toughest conditions

The Pac 8500 is easily handled in 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 minimizing 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. This provides an additional level of safety as a pre-alarm, in addition to the main alarm, can be set for both oxygen enriched and oxygen deficient atmospheres.

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 detector 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 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 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)	•			
Unlimited operating time		•	•	•
Service life indicator	•	(•) ¹	(•) ¹	(•) ¹
Temperature to -40°C	•	•		
Battery capacity indicator	•	•	•	•
Replaceable sensor grid	•	•	• ²	•
Peak	•	•	•	•
TWA-TLV ³		•	•	•
STEL ⁴		•	•	•
Event logger	•	•	•	•
Data logger	•	•	•	•
Standard gases	•	•		
Special gases			•	
Dual sensor				•

¹Configurable ³TWA-TLV® = Time Weighted Average Threshold Limit Value
²Does not apply to ozone or phosgene ⁴STEL = 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 gas detectors. The sensors detect many different gases and vapors. 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

Automatic bump tests, calibration, reduced test gas consumption, short testing times, and comprehensive documentation come standard in this new device from Dräger, the experts in gas detection.



ST-740-2006

Dräger Bump Test Station

The Bump Test Station is easy to use, stand-alone and flexible. In this regard, function tests of gas detection and warning devices can be carried out easily and independently of the location.

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Accessories



D-30746-2015

Dräger Configuration and Evaluation Software

Tailor-made Dräger software makes saving measurement results, professionally configuring gas detection instruments, and viewing performance data possible.

Accessories



Calibration gas and accessories

For the safe operation of devices, applicable regulations and statutory provisions are to be met and complied with. Therefore, regular calibrations and function tests are necessary. Different systems are available so that products meet a wide range of calibration requirements.



Calibration Adapter

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



Dräger Service

When your operation's safety equipment is backed by over 125 years of experience and supported by the same team that engineered it, you can rely on service and rental solutions that are tailored to meet your unique needs. With Dräger's safety solutions, you get complete peace of mind, budget security, and full-service support that you can count on every step of the way. That's the Dräger Service Advantage.

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Related Products



D-4977-2017

Dräger Pac® 6000

The Dräger Pac® 6000 disposable personal gas detector measures CO, H₂S, SO₂ or O₂ 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-4987-2017

Dräger Pac® 6500

The robust Dräger Pac® 6500 is your reliable companion under tough conditions. The personal single-gas detection device measures CO, H₂S, SO₂ or O₂ quickly and precisely. Quick sensor response times and a replaceable battery also ensure safety.



D-4989-2017

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 twenty nine different gases, including special gases like NO₂, O₃ or COCl₂.

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Technical Data

Dräger Pac® 8500

Dimensions (without clip) (W x H x D)	2.5 x 3.3 x 0.8 in, 64 x 84 x 20 mm
Weight	Approx. 3.7 ounces, 106 g (4.0 ounces, 113 g with clip)
Battery service life	Min. 2 years (O ₂ and dual sensors min. 12 months)
Protection class	IP68
Air pressure	700 to 1,300 hPa
Air humidity	10 to 90% relative humidity, non-condensing
Temperature	-22 °F to 131 °F, -30 °C to +55 °C (briefly down to -40 °F / -40 °C for 1 hr, depending on sensor)
Approvals	cCSA _{US} , IECEx, ATEX, CE

Ordering Information

Dräger Pac® 8500

Description	Measuring range	Alarm thresholds A1/A2	Order number
Dräger Pac® 8500 H ₂ S/CO	0 – 100 ppm H ₂ S 0 – 2,000 ppm CO	10 / 15 ppm H ₂ S 35 / 50 ppm CO	83 28 263
Dräger Pac® 8500 O ₂ /CO	0 – 25 Vol.-% O ₂ 0 – 2,000 ppm CO	19.5 / 23.5 Vol.-% O ₂ 35 / 50 ppm CO	83 28 265
Dräger Pac® 8500 CO-H ₂ CP	0 – 2,000 ppm	35 / 50 ppm	83 27 617
Dräger Pac 8500 CO-H ₂ CP (Canada)	0 – 2,000 ppm	25 / 50 ppm	83 28 262
Dräger Pac® 8500	As per customer request	As per customer request	83 26 343

Calibration accessories

Calibration adapter	83 18 588
Dräger X-dock® 5300 Pac	83 21881
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 (selectable gas and concentration)	83 18 586

Communication accessories

Dräger CC-Vision Basic, available free of charge at www.draeger.com	
Communication module, including USB cable	83 18 587

Spare parts

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

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ISO 29001:2010



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