

## Dräger X-pid® 9500 Multi-Gas Detector

The selective PID gas measurement device is ideal for users who frequently test for hazardous toxic substances. Benzene, butadiene and other volatile organic compounds (VOCs) are carcinogenic even in the smallest concentrations. Selective measurement is necessary because other gases and vapors are often also present. The gas measurement device allows for short test times and lab-quality results.



## Benefits

---

### Two modes for an efficient measurement strategy

“Seeker” mode is a wide-range measurement for pre-testing and localizing measurement points. It allows continuous, direct-reading measurement of the total concentration of all VOCs present. “Seeker” mode is similar to using a single-PID gas measurement device.

“Analysis” mode allows selective measurement for monitoring specific toxic compounds. Predefined target compounds can be precisely measured in seconds. “Analysis” mode is similar to gas chromatography analyzes conducted in the laboratory.

---

### Up to 90% faster

The Dräger X-pid 9500 requires no preparation and is ready to use after a brief start-up phase. Selective measurement in “Analysis” mode takes only a few seconds. A benzene measurement starts with the push of a button and is completed in only 30 seconds. After another 60 seconds, the device is ready to measure for benzene again. Compared with other detection systems, the Dräger X-pid 9500 saves considerable time and enables further monitoring to be undertaken. Simultaneous measurement of other compounds, like benzene and butadiene, further reduces testing times.

---

### Cost savings

Because no consumables are used to take measurements, operating costs can be reduced. For users with high measurement needs, the Dräger X-pid 9500 quickly pays for itself. For example, it requires no pretubes, also making it easier to use and preventing user errors. On the basis of 200 measurements per year, the Dräger X-pid 9500 is generally more cost-effective than comparable measurement systems.

---

### High selectivity for greater safety

The selective measurement mode “Analysis” relies on technology which separates individual compounds present in mixed gases. This makes it possible to conduct a compound-specific measurement for benzene, even if other VOCs like toluene and xylene are also present in high concentrations. Cross-sensitivities for benzene are reduced to a minimum. This reduces the number of false-positive measurement results and false alarms.

---

### Reliable performance under tough conditions

The influence on measurement results by environmental factors like variable ambient temperature or high humidity are reduced to a minimum. The sensor unit maintains a constant temperature above the ambient air temperature and separates water vapor from the target compounds. This ensures reliable measurements under tough environmental conditions.

## Benefits

---

### Low detection limits

Concentrations of toxic compounds in the air at work sites must not exceed threshold limit values. Mandatory time-weighted averages in the low ppb to ppm range need to be performed for carcinogenic vapors like benzene. The Dräger X-pid 9500 is optimized for measuring in this concentration range and detects benzene starting at 50 ppb.

---

### Intuitive handling with mobile app

The sensor unit is controlled and the measurement data processing is conducted by a mobile app installed on an explosion-proof smartphone (delivery includes both). The large touchscreen and familiar user interface elements are easy to use. This makes the sophisticated technology accessible to a broad group of users. No prior knowledge or extensive training is required.

---

### Lab-quality measurement results

The gas measurement device is based on gas chromatography (GC) and photoionization detection (PID) technologies. These technologies, used widely in laboratories, have a high acceptability due to their excellent analytical performance. The Dräger X-pid 9500 brings these technologies directly to the hazardous area of any production site.

---

### Simple functional test and calibration

The functional test with the test gas isobutylene and toluene is done in just two minutes and the Dräger X-pid 9500 is ready to use. During the test the user is guided through the user interface step-by-step. The calibration is completed within about four minutes.

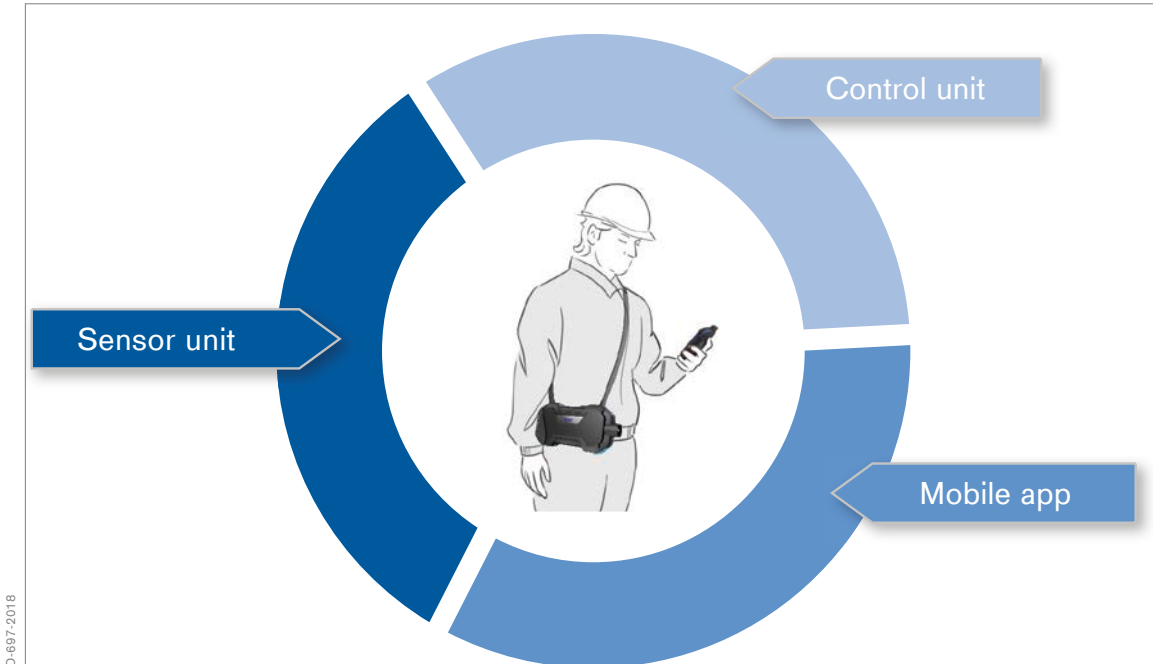
---

### Software Interfaces

The GasVision 7 software is a Windows-based software with which you can professionally visualize and evaluate the data logger of your Dräger X-pid. It is also possible to create an Excel-based export for further analyses.

The Dräger CSE Connect software solution digitizes the exchange of information during clearance measurement procedures. The data transfer between the smartphone app and the web application takes place via a cloud connection. The Dräger X-pid 9500 communicates directly with the app. This helps you to manage your measuring tasks safely and at the same time cost-effectively.

## Innovative operating design



The Dräger X-pid® 9500 consists of three elements: You control the sensor unit via the control unit and the preinstalled mobile app. The sensor unit can be worn around the neck, keeping one hand free.

### Independent Third Party Evaluation

Below you will find the lab results (deviation in %) of the independent Scientific and Technical Federal Institute (Bundesanstalt für Materialforschung). The deviation of the adjusted and measured benzene quantity in a BTEX mixture (benzene, toluene, ethylbenzene, xylenes) is given in percent. The measurements were carried out at 20%, 50% and 80% relative humidity and -10°C, 20°C and 25°C

benzene (ppm)	20% relative humidity		50% relative humidity		80% relative humidity
	-10°C	25°C	-10°C	25°C	20°C
0.4	8%	16%	8%	18%	9%
1	7%	15%	10%	22%	8%
5	10%	18%	12%	21%	11%
10	9%	21%	16%	23%	15%
50	-	-	27%	25%	-
25	21%	24%	-	-	-

All measurements were carried out using a gas chromatograph in parallel with the Dräger X-pid in order to be able to calculate an absolute deviation. The Dräger X-pid is optimized for low concentrations, which is evident, among other things, in the low deviation for 0.4 ppm benzene. The deviations show positive measurement deviations of the Dräger X-pid, i.e. the device displays slightly higher values and thus runs into the more favorable false positive case as desired.

## Accessories

D-0494-2018



---

### Calibration gas and accessories

Calibration of equipment ensures safe operation and functionality as well as compliance with applicable regulations and best practices. Various calibration options are easily available.

D-34536-2009



---

### Case with inlay for Dräger X-pid® 9000/9500

For convenient transport of sensor unit, control unit, calibration gas cylinder, chargers and sampling accessories.

D-4735-2017

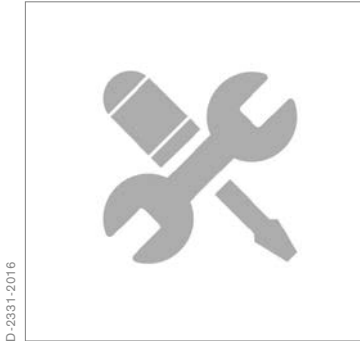


---

### Sampling probes and hoses

Selection of sampling accessories for various applications.

## Services



### Product service

Our product service department supports you with a range of service packages, both in our shops and on site in your plant. Care, servicing and maintenance are key factors when it comes to safety. Diligent maintenance and care is also absolutely necessary from an economics perspective. Preventive checks, service procedures and original replacement parts make your investment last longer.

## Technical Data

The technical specifications refer exclusively to the Dräger X-pid® 9500 sensor unit.

Dimensions (W x H x D)		approx. 132 x 281 x 56 mm
Weight		Ca. 880 g (2 lb)
Ambient conditions in operation	Temperature	-10 to +35°C
	Pressure	700 to 1,300 mbar
	Relative humidity	10% to 95% RH
Protection class		IP54
Start-up phase		approx. 10 min
		can be increased at low ambient temperatures
Operating times		Typically 8 h, reduces with lower ambient temperatures
Approvals	ATEX	II 1G Ex ia IIC T4 Ga
	IECEX	Ex ia IIC T4 Ga
	cCSAus	Class I, Div. 1 Group A, B, C & D T4, Ex ia Class I, Zone 0, A/Ex ia IIC T4 Ga
	CE Marking	RED (Directive 2014/53/EU) ATEX (Directive 2014/34/EU)

## Order Information

Description	Order number
Dräger X-pid 9500 with sensor unit, power supply, shoulder strap, water and dust filter and gassing adapter	68 51 848
with control unit with preinstalled Mobile App, belt clip, power supply and charging cable	
Dräger X-pid 9500 US/CA/AU with sensor unit, power supply, shoulder strap, water and dust filter and gassing adapter	68 50 015
with control unit with preinstalled Mobile App, belt clip, power supply and charging cable	
Dräger X-pid 9500 BR with sensor unit, power supply, shoulder strap, water and dust filter and gassing adapter	68 50 068
with control unit (BR) with preinstalled Mobile App, belt clip, power supply and charging cable	
Dräger X-pid 9500 CN with sensor unit, power supply, shoulder strap, water and dust filter and gassing adapter	68 50 069
with control unit (CN) with preinstalled Mobile App, belt clip, power supply and charging cable	
Dräger X-pid 9500 RU with sensor unit, power supply, shoulder strap, water and dust filter and gassing adapter with control unit (RU) with preinstalled mobile app, belt clip, power supply and charging cable	68 50 070
Dräger X-pid 9500 JP with sensor unit, power supply, shoulder strap, water and dust filter and gassing adapter	68 50 071
with control unit (JP) with preinstalled mobile app, belt clip, charging cable and w/o power supply	
Test gas 58L C4H8/C7H8 / N2	68 14 046
Control valve basic 0.5 LPM; fits to 58 l Test gas cylinder	68 10 397
Dräger X-pid® 9000/9500 test gas adapter	68 51 850
Case for Dräger X-pid® 9000/9500	68 51 851
Sampling hose Tygon with inlined PTFE hose	83 26 980
Length (3 m / 9.84 ft); OD: 8 mm; ID: 4.8 mm; WD: 11.6 mm	
Sampling hose Tygon with inlined PTFE hose	45 94 679
Length (15 m / 49.21 ft); OD: 8 mm; ID: 4.8 mm; WD: 11.6 mm	
Sampling hose FKM (solvent resistant)	83 25 837
OD: 6.4 mm; ID: 3.2 mm; WD: 1,6 mm	
Dust and water filter with hose adapter	83 19 364
Filter kit 20 pcs. X-am 1/2/5000	37 05 997
Telescopic probe ES 150	83 16 533
Length up to 150 cm (4.92 ft) with FKM sampling hose extension	
Bar probe 90	83 16 532
Length: 90 cm (2.95 ft) with FKM sampling hose extension	
Float probe without hose	68 02 337

## 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.

### **CORPORATE HEADQUARTERS**

Drägerwerk AG & Co. KGaA  
Moislinger Allee 53–55  
23558 Lübeck, Germany

[www.draeger.com](http://www.draeger.com)

### **USA**

Draeger, Inc.  
7256 S. Sam Houston Parkway W.,  
Suite 100  
Houston, TX 77085  
1 800 4DRAGER  
(1 800 437 2437)

Locate your Regional Sales  
Representative at:  
[www.draeger.com/contact](http://www.draeger.com/contact)

