

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 laboratory-quality results.



Benefits

Two modes for an efficient measurement strategy

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

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

Up to 90% time savings

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 pre-tubes, making it easier to use and prevent 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 “Analysis” measurement mode 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. 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 (included). The large touch screen 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.

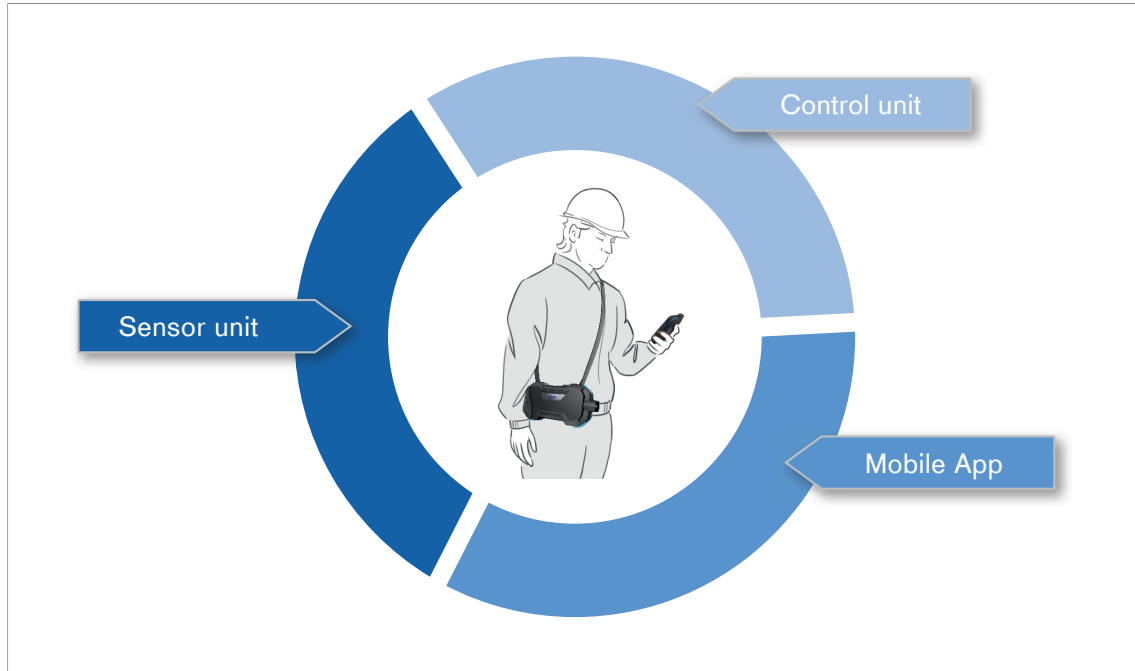
Laboratory-quality measurement results

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.

Innovative operating design



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

Accessories



ST-50980-2005

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.

Accessories



Case with inlay for Dräger X-pid® 9500

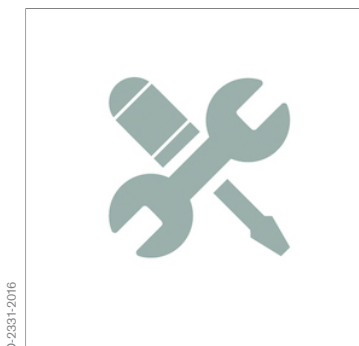
For convenient transport of sensor unit, control unit, calibration gas cylinder, chargers and sampling accessories.



Sampling probes and hoses

Selection of sampling accessories for various applications.

Services



Product Service

At Dräger, we stand behind our products with a range of service packages—in our shops or on site in your plant. Regular service and maintenance are essential for protecting your people and your facilities. Diligent maintenance and care is also necessary from an economic perspective. Preventive checks, service procedures and original replacement parts can extend the life of your investment.

Technical Data

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

Dimensions (W x H x D)		Approx. 5.2 x 11.1 x 2.2 in (132 x 281 x 56 mm)	
Weight		Approx. 880 g (2 lb)	
Ambient conditions	Temperature	14 °F to 95 °F (-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 6 h, reduces with lower ambient temperatures	
Approvals	Sensor Unit	Control Unit	
		(ecom Smart-Ex 01)	
	Ex-Zone	0	1
	ATEX	II 1G Ex ia IIC T4 Ga IP54	II 2G Ex ib IIC T4 Gb IP64
	IECEX	Ex ia IIC T4 Ga IP54	Ex ib IIC T4 Gb IP64
	cCSAus	Class I, Div 1 Groups A-D T4	Class I, Div 1 Groups A-G T4

List of Dräger X-pid® 9500 target compounds for "Analysis" mode

For the Dräger X-pid® 9500 the following target compounds are qualified.

Category	CAS number	Compound name
1	67-64-1	Acetone
1	107-02-8	Acrolein
1	71-43-2	Benzene
1	106-99-0	Butadiene, 1,3-
1	123-86-4	Butyl acetate
1	123-72-8	Butyraldehyde
1	75-15-0	Carbon disulfide
1	110-82-7	Cyclohexane
1	75-35-4	Dichloroethene, 1,1-
1	156-59-2	Dichloroethene, cis-1,2-
1	156-60-5	Dichloroethene, trans-1,2-
1	64-17-5	Ethanol
1	100-41-4	Ethylbenzene
1	75-21-8	Ethylene oxide
1	142-82-5	Heptane
1	110-54-3	Hexane, n-
1	7783-06-4	Hydrogen sulfide
1	115-11-7	Isobutylene
1	67-63-0	Isopropanol
1	96-33-3	Methyl acrylate
1	74-83-9	Methyl bromide
1	80-62-6	Methyl methacrylate
1	7803-51-2	Phosphine

Technical Data

1	71-23-8	Propanol , 1-
1	75-56-9	Propylene oxide
1	100-42-5	Styrene
1	127-18-4	Tetrachloroethylene
1	109-99-9	Tetrahydrofuran
1	108-88-3	Toluene
1	79-01-6	Trichloroethylene
1	75-01-4	Vinyl chloride
1	108-38-3	Xylene, m-
1	95-47-6	Xylene, o-
1	106-42-3	Xylene, p-

Ordering Information

Description	Order number
Dräger X-pid® 9500 with sensor unit, control unit with pre-installed mobile app, power supplies, charging cables, test gas adapter and dust and water filter	68 50 015
Test and calibration gas 58 l Isobutylene 10 ppm, Toluene 10 ppm	37 01 900
Test gas 103 l Benzene 5 ppm	37 00 266
Control valve basic 0.5 LPM; fits to 58 l Test gas cylinder	45 57 020
Dräger X-pid® 9500 test gas adapter	68 51 850
Case for Dräger X-pid® 9500	68 51 851
Sampling hose Tygon with inlined PTFE hose Length (3 m); OD: 8 mm; ID: 4.8 mm; WD: 1.6 mm	83 26 980
Sampling hose Tygon with inlined PTFE hose Length (15 m); OD: 8 mm; ID: 4.8 mm; WD: 1.6 mm	45 94 679
Sampling hose FKM (solvent resistant) OD: 6.4 mm; ID: 3.2 mm; WD: 1,6 mm	83 25 837
Dust and water filter with hose adapter	83 19 364
Dust and water filter w/o hose adapter	83 19 359
Telescopic probe ES 150 Length up to 150 cm with FKM sampling hose extension	83 16 533
Bar probe 90 Length: 90 cm with FKM sampling hose extension	83 16 532
Float probe without hose	68 02 337

Notes

Not all products, features, or services are for sale in all countries.
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