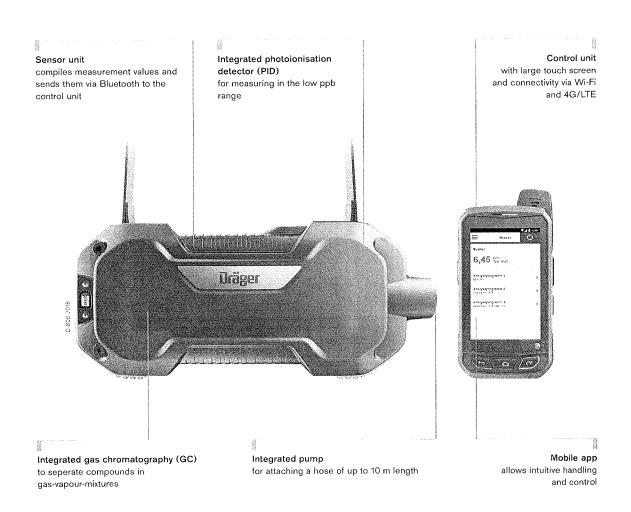
# **EXHIBIT A**



# Dräger X-pid<sup>e</sup> 9000/9500 Multi-Gas Detection

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 vapours are other 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 for pre-testing and localising 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. 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 9000/9500 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 9000/9500 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 9000/9500 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 9000/9500 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 vapour 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 vapours like benzene. The Dräger X-pid 9000/9500 is optimised 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 measurment data processing is conducted by a mobile app installed on an explosion-proof smartphone (delivery includes both). 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 photoionisation detection (PID) technologies. These technologies, used widely in laboratories, have a high acceptability due to their excellent analytical performance. The Dräger X-pid 9000/9500 brings these technologies directly to the hazardous area of any production site.

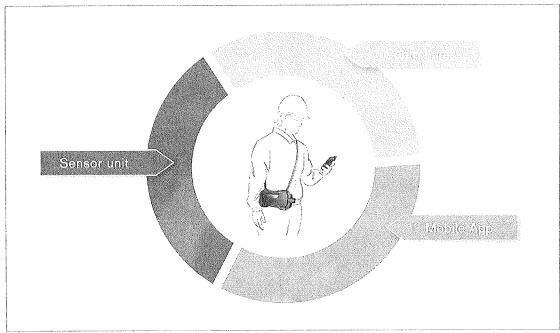
#### Simple functional test and calibration

The functional test with the test gas isobutylene and toluene is done in just two minutes and the Dräger X-pid 9000/9500 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.

#### Two product models for different requirements

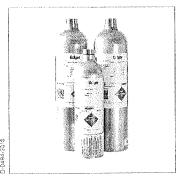
There are two models of the product: the 9000 and 9500. The Dräger X-pid 9000 covers the target compounds benzene and butadiene. The Dräger X-pid 9500 offers the possibility of combining more than 23 target compounds into individual analysis programmes and thus expanding its application range. This means, you can independently expand the target substance database for the Dräger X-pid 9500.

# Innovative operating design



The Dräger X-pid® 9000/9500 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

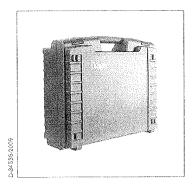


#### Calibration Gas and Accessories

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 gas options are easily available.

Section Cond

#### Accessories



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

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

Our product service department supports you with a range of service packages – in our shops or 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® 9000/9500 sensor unit.

Dimensions (W x H x D)		Ca. 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	MARK STATE OF THE	IP54		
Start-up phase		Ca. 10 min		
		can be increased at low ambient		
		temperatures		
Operating times		Typically 8 h, reduces with lower ambient		
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	IECEx	Ex ia IIC T4 Ga		
	cCSAus	Class I, Div. 1 Group A, B, C & D T4, Ex is		
		Class I, Zone 0, A/Ex ia IIC T4 Ga		
	CE Marking	RED (Directive 2014/53/EU)		
		ATEX (Directive 2014/34/EU)		

#### List of Dräger X-pid® 9000/9500 target compounds for "Analysis" mode

The Dräger X-pid® 9000 is limited to the target compounds benzene and 1,3-butadiene. For the Dräger X-pid® 9500 the following target compounds are qualified.

Compounds	CAS number
Acrolein	107-02-8
Benzene	71-43-2
Butadiene, 1,3-	106-99-0
Butanone, 2-	78-93-3
Butyl acrylate	141-32-2
Chlorobenzene	108-90-7
Dichloroethene, 1,1-	75-35-4
Dichloroethene, cis-1,2-	156-59-2
Dichloroethene, trans-1,2-	156-60-5
Epichlorohydrin	106-89-8
Ethyl acetate	141-78-6
Ethyl acrylate	140-88-5
Ethylbenzene	100-41-4
Ethylene oxide	75-21-8
Hexane, n-	110-54-3
Isobutylene	115-11-7
Methyl acrylate	96-33-3
Methyl bromide	74-83-9
Phosphine	7803-51-2
Propylene oxide	75-56-9
Styrene	100-42-5
Tetrachloroethylene	127-18-4
Tetrahydrofuran	109-99-9
Toluene	108-88-3

# Technical Data

Trichloroethylene	79-01-6
Vinyl chloride	75-01-4
Xylene, m-	108-38-3
Xylene, o-	95-47-6
Xylene, p-	106-42-3

# Ordering Information

Description	Order number
Dräger X-pid* 9000 with sensor unit, control unit with pre-installed mobile app, power	68 51 847
supplies, charging cables, test gas adapter and dust and water filter	
Dräger X-pid® 9500 with sensor unit, control unit with pre-installed mobile app, power	68 51 848
supplies, charging cables, test gas adapter and dust and water filter	
Dräger X-pid® 9500 AUS/SGP with sensor unit, control unit with pre-installed mobile	68 50 014
app, power supplies, charging cables, test gas adapter and dust and water filter	
Dräger X-pid® 9500 CAN with sensor unit, control unit with pre-installed mobile app,	68 50 015
power supplies, charging cables, test gas adapter and dust and water filter	
Upgrade Dräger X-pid® mobile app from version 9000 to version 9500	68 51 849
Test and calibration gas 58 I	68 14 046
Isobutylene 10 ppm, Toluene 10 ppm	
Test gas 58 I	68 14 050
Benzene 5 ppm	
Control valve basic 0.5 LPM; fits to 58 l Test gas cylinder	68 10 397
Dräger X-pid <sup>®</sup> 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); OD: 8 mm; ID: 4.8 mm; WD: 1.6 mm	
Sampling hose Tygon with inlined PTFE hose	45 94 679
Length (15 m); OD: 8 mm; ID: 4.8 mm; WD: 1.6 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
Dust and water filter w/o hose adapter	83 19 359
Telescopic probe ES 150	83 16 533
Length up to 150 cm with FKM sampling hose extension	
Bar probe 90	83 16 532
Length: 90 cm with FKM sampling hose extension	Land to the state of the state
Float probe without hose	68 02 337

#### Notes

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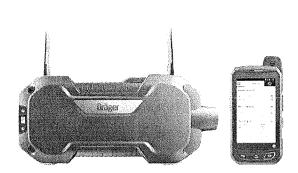
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# Dräger

Home > Safety > Products > Portable Gas Detection > Multi Gas Detectors

# Dräger X-pid® 8500



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 Dräger X-pid® 8500 allows for short test times and laboratory-quality results.

Request Information

#### Benefits

#### Integrated techniques bring gas detection to a new level

The Dräger X-pid 8500 allows selective measurement for monitoring specific compounds. Pre-defined target compounds can be accurately measured in seconds. The Dräger X-pid 8500 analyzer is a streamlined version of gas chromatography analyses conducted in the laboratory. But it builds on that as the user now can easily take the analysis to the field where intrinsic safety certifications may be required.

#### Time savings of up to 90%

The Dräger X-pid 8500 requires no preparation and is ready to use after a brief start-up phase. Selective measurement 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 8500 saves considerable time and enables further monitoring to be undertaken. Simultaneous measurement of other compounds 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 8500 quickly pays for itself. For example, it requires no pre-tubes, also making it easier to use and helps prevent user errors. On the basis of about 200 measurements per year, the Dräger X-pid 8500 is generally more cost-effective than comparable yet more cumbersome measurement systems.

#### High selectivity for greater safety

The X-pid 8500 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.

#### 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 8500 is optimized for measuring in this concentration range and detects benzene concentrations as low as 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. The large touch screen and familiar user interface 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 8500 brings these technologies directly to the hazardous area of any production site.

#### Simple functional test and easy calibration

The functional test with isobutylene and toluene test gases is done in just two minutes and the Dräger X-pid 8500 is ready to use. During the functional test the user is guided through the user interface step-by-step. Only if the functional test fails, a calibration with the same test gas standard will be required, which will be completed in about four minutes.

#### **Product Information**



#### X-pid xx00 Product specification @

#### Literature



#### Product Information: X-pid 8500 @

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 Dräger X-pid® 8500 allows for short test times and laboratory-quality results.

#### Certificates



ED X-pid approvals @

#### Videos



#### X-pid 8500 Introduction Video, en-us @

The Dräger X-pid® 8500 was designed to detect limit values for carcinogenic substances in low concentrations. The device detects benzene, butadiene and other volatile organic compounds (VOCs) in ambient air. The gas chromatography / PID technology of this new type of gas detector enables a quick and selective measurement with maximum efficiency and laboratory-quality results.

#### Accessories

Case with inlay for Dräger X-pid® 8500

Case with inlay for Dräger X-pid® 8500

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

Sampling probes and hoses

Sampling probes and hoses

Selection of sampling accessories for various applications.

#### Instructions for Use

Sensor Unit 9300019 ME IFU X-pid 8x00 Sensor Unit 9300019 ME €

#### **Technical Information / Documentation**

TD X-pid 8500/9000/9500 Technical manual 9033850 en TD X-pid 8500/9000/9500 Technical manual 9033850 en ®

#### Contact

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**倫** +1-215-723-5935

👺 E-Mail Us

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# **EXHIBIT B**

# Dräger

Home > Safety

# New Dräger X-am® 8000 - Multi-Gas Detector

Clearance measurement, leak search, area monitoring and PID detection was never this easy and convenient: The Dräger X-am® 8000 measures up to seven toxic as well as flammable gases, vapors and oxygen all at once — either in pump or diffusion mode. Innovative signaling design and handy assistant functions ensure complete safety throughout the process. If you need additional information and a deep dive of the low operating costs of the new Dräger X-am® 8000 multi-gas detector, please contact us.

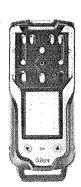
#### Features and Benefits



Glowing D-Light indicates: tested and ready for use

Assistants for clearance measurement, leak detection and benzene-specific testing with the PID (pre-tube) ensure easy handling





Switch easily between pump and diffusion mode for flexible use



Five sensor slots used to measure up to 7 gases



Inductive charging protects against wear and tear



#### **Features**

Number of measuring gases

Internal pump, activated with pump adapter

Inductive charging

Customer-specific settings when ordering

Shoulder strap included as standard

Catalytic bead sensor DrägerSensor CatEx 125 PR

#### Dräger X-am® 8000

1 to 7

Yes, optional

Yes

Yes

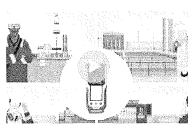
Yes

Yes, con.

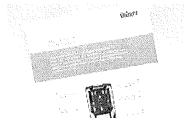


Features	Dräger X-am® 8000
Available electrochemical (EC) DragerSensors: XXS O <sub>2</sub> , XXS CO LC, XXS H <sub>2</sub> S LC, XXS NO <sub>2</sub> , XXS SO <sub>2</sub>	Yes, configurable
Electrochemical (EC) DrägerSensors: other sensors/special gases	Yes, configurable
Infrared (IR) DrägerSensors Dual IR Ex/CO <sub>2</sub> , IR-Ex, IR-CO <sub>2</sub>	Yes, configurable
Photoionization detector (PID) DrägerSensors: PID HC, PID LC ppb	Yes, configurable
Automatic measurement range switching for the catalytic bead sensor, measuring gas: methane	Yes, configurable
Smart Wizards Assistants: Confined Space, Leak Search, Benzene/Pre-Tube	es, only when a pump is ins
Event report (incl. shock detection)	Yes, configurable
Different Gases can be measured:	150 plus +

## Data and Literature



Dräger X-am® 8000 Video



X-am® 8000 Data Sheet



PID sensors Data Sheet

# Contact US

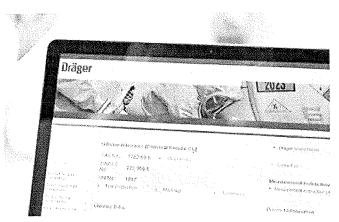
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Industry* Please Select	
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Looking for which portable multigas detection device detects a specific gas? Review our gas detection hazardous substances database "VOICE", which offers information on more than 1,700 hazardous ...

Assessed VOICE messal

#### How to Videos

Usages and Functions Overview How to Operate

**Detection Alarms** 

Pump mode

Usage with Assistant Wizards

**Configuration of Settings** 

Portable Gas Detection Bump Test and Calibration System

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 detectiion.

Learn more

#### Gas Detection Portfolio





Portable Gas **Detection Portfolio** 





**Fixed Gas Detection** Portfolio

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X-AM

Word Mark

X-AM

Goods and Services

IC 009. US 021 023 026 036 038. G & S: Measuring, counting, aligning and calibrating instruments, namely,

gas testing instruments. FIRST USE: 20041231. FIRST USE IN COMMERCE: 20041231

Standard Characters

Claimed

Mark Drawing

Code

(4) STANDARD CHARACTER MARK

Serial Number

87386982

Filing Date

March 27, 2017

**Current Basis** 

1A:44E

**Original Filing** 

1B;44D

**Basis** 

Published for Opposition

January 23, 2018

Registration

5504207

Number

Registration Date

June 26, 2018

Owner

(REGISTRANT) Draegerwerk AG & Co. KGaA CORPORATION FED REP GERMANY Moislinger Allee 53-55 23558 Luebeck FED REP GERMANY

Attorney of

Record

Amy Wright

**Priority Date** 

November 24, 2016

Type of Mark

**TRADEMARK** 

Register

**PRINCIPAL** 

Live/Dead

LIVE



# Dräger X-am<sup>®</sup> 5000 (MQG 0010) / Software 7.n (≥ 7.0)

de	Gebrauchsanweisung 量 3	fi '	Käyttöohjeet 量99	cs	Návod k použití 置 195
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