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# Dräger X-am® 8000 Multi-Gas Detector

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Clearance measurement was never this easy and convenient: The 1 to 7 gas detector detects toxic and flammable gases as well as 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.

**Dräger**

Technology for Life

# Dräger X-am® 8000

Switch easily between pump and diffusion mode

Impact detection informs you of severe mechanical stresses

Assistants for clearance measurement, leak detection, sensor selection and benzene-specific testing with the PID (pre-tube)

Optional Bluetooth® module to connect with the Dräger X-Site Live Monitoring solution

Bluetooth® is a registered trademark of Bluetooth SIG, Inc.



D-24010-2020

Glowing green D-Light (optional) indicates: tested and ready for use

Five slots for DrägerSensors® to measure up to seven gases. Two high-performance PID sensors.

Easy-to-read color display with zoom function

Inductive charging

Flammable gases and vapors: methane, propane, oxygen as well as selected toxic gases

# Benefits

## Multi-gas detector

- 1- to 7 gas detection device
- for clearance measurement
- detection of toxic and combustible gases as well as vapors and oxygen

## Specially designed for use with a pump, optimized for clearance measurement

The Dräger X-am® 8000 is equipped with a very powerful pump. It can be connected with hoses of up to 45 meters in length. A pump adapter makes it easy to switch between diffusion and pump mode at any time. This means the pump is only operated when you actually need it. That saves energy, reduces wear and tear, and extends the lifespan of the pump.

Handy and durable, the Dräger X-am® 8000 is intuitive to operate single-handedly using three function keys. The easy-to-read color display clearly lays out all the information for you.

The multi-gas detector also features advanced software functions including change of measurement gas for PID, CatEx and IR sensor during operation. This is based on an on-board library and a convenient assistant to hide unused sensor channels and adapt the flexible instrument to the measurement task.

Standard accessories include a sturdy shoulder strap so you can comfortably carry the X-am 8000. Thanks to its compact and robust construction, the device can withstand even the harshest conditions.

## Clearance measurement, release and documentation in no time

The X-am 8000 effectively supports various applications with specially developed assistant functions that guide you through each process step-by-step. During clearance measurement, for example, the smart assistant calculates the necessary flooding time for the device and probe (FKM hose) based on parameters such as measuring gases, temperature limits, and the indicated hose length. Additionally, customer defined flooding times are also possible.

When monitoring for potentially high methane concentrations, an optional automatic measurement range switch makes it easier to take a reading: If the Cat-Ex sensor measures values above 100 % LEL, the display switches to the range of 0 to 100 vol %. A similar function to measure in % LEL and vol % simultaneously is also available for the IR EX ES sensor.

The DrägerSensor CatEx 125 PR Gas offers a special variant for the measuring gas methane, which enables measurements in the ppm range.

## Clear signaling design

The signal system of the Dräger X-am 8000 is based on a clear color code:

- Red light = gas alarm
- Yellow light = device-related alarm, e.g. low battery
- Green light = device is ready for use

The green glow of the D-Light allows you to see from a distance whether the device has been properly tested and is ready for use.

In case of an alarm, the X-am 8000 alerts you with colorful alarm LEDs, a loud horn (100 dB at a distance of 12 in or

# Benefits

30 cm), and clearly palpable vibration. Optionally, four preset hazard symbols are available for the display which explicitly indicate the presence of explosive or toxic gas hazards, for example. This allows the user to easily recognise the type of hazard based purely on the symbol displayed.

The X-am 8000 is equipped with an impact detection system. The event report indicates whenever severe mechanical impacts have occurred that might result in functional impairments of the device or the sensors. These are also documented in the data logger. With this information, a device attendant can specifically check the device. As an option the instrument can be locked after a detected impact as well.

## Economical Fleet Management

Bumptest and calibration are carried out simply and quickly using the Dräger X-dock® calibrating station. Its low test gas consumption keeps operating costs to a minimum.

Its reporting function and numerous other useful features make the GDC asset management system a smart addition to any fleet management operation.

## Specialist for high and low hydrocarbon concentrations

To measure hard-to-detect hydrocarbons, you can fit the Dräger X-am 8000 with one of two high-performance PID sensors. The PID HC covers a measurement range of 0 to 2,000 ppm (isobutylene). The PID LC ppb is particularly suited for a measurement range of 0 to 10 ppm (isobutylene) with a high resolution in the range below 1 ppm.

For benzene-specific measurements, the X-am 8000 can be used with a pre-tube. The advantage: you only need one measuring device for this application, which significantly reduces the costs of purchasing, maintaining and transporting devices in use. The use of the pre-tubes is supported by a built-in assistant.

## Inductive charging protects against wear and tear

The X-am 8000 features inductive charging. This makes it easier to operate and increases the lifespan of the device. Issues like corrosion and contact problems in the charging cradle are a thing of the past. You can charge (outside of explosion-hazard zones) and measure at once, e.g. when in use inside vehicles or on machinery.

The charging cradle can connect with one another, taking up minimal space, and are compatible with existing Dräger X-am® series cradles.

# Details

D-6494-2017



Shoulder strap

D-14324-2017



Pump adapter

D-6553-2017



Pre-tube holder

## Comparison of Dräger X-am® 3500 and Dräger X-am® 8000

Features	Dräger X-am® 3500	Dräger X-am® 8000
Number of measuring gases	1 to 4	1 to 7
Internal pump, activation with pump adapter	Yes	Yes
Inductive charging	Yes	Yes
Customer-specific settings when ordering	No	Yes
Shoulder strap included as standard	No	Yes
Catalytic bead sensor DrägerSensor® CatEx 125 PR	Yes	Yes, configurable
Electrochemical (EC) DrägerSensors®: 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	Yes, configurable
Electrochemical (EC) DrägerSensors®: Other sensors/special gases	No	Yes, configurable
Infrared (IR ES) DrägerSensors® Dual IR Ex/CO <sub>2</sub> (HC), IR-Ex, IR-CO <sub>2</sub>	No	Yes, configurable
IR Ex sensor: 2 gases/measurement ranges configurable	No	Yes, configurable
Photoionization detector (PID) DrägerSensors®: PID HC, PID LC ppb	No	Yes, configurable
Automatic measurement range switching for the catalytic bead sensor, measuring gas: methane	No	Yes, configurable
Assistant: Confined Space, Leak Search, Sensor Selection, Benzene/Pre-Tube	No	Yes, only when a pump is installed
Toxic twins: CO and HCN signal processing	No	Yes
Bluetooth® <sup>1</sup>	No	Option

<sup>1</sup>Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

Dräger offers two different multi-gas detection devices with internal pump: Dräger X-am® 8000 and Dräger X-am® 3500. The different features of both devices are summarized in the table above.

## Accessories



### Pedestal

Use to stand the device upright for area monitoring. The pedestal can be used with or without a shoulder strap.

D-6545-2017

# Services

D-2331-2016



## Product Service

Our product service provides support with different service packages– in our workshops or directly on your premises. Care, maintenance and servicing are crucial for safety and reliability– but careful maintenance and care are a must, even when it comes to commercial considerations. Preventive checks, ongoing care and use of original replacement parts improve the longevity of your investment.

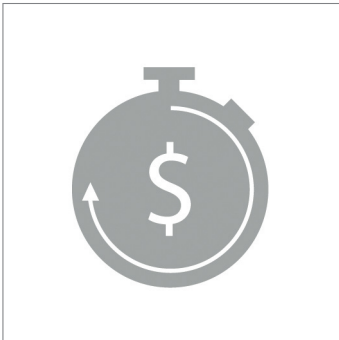
D-2335-2016



## Training

The Dräger Academy has imparted well-founded and practical knowledge for over 40 years. With over 110 authorized trainers and more than 600 available topics, we conduct more than 2,400 training sessions per year. We equip your people with the knowledge they need for real-life situations and make sure they will be able to recall and readily apply that knowledge in their everyday work—especially in stressful situations. If you have specific needs, we can develop a customized training program to meet your individual requirements.

D-2330-2016



## Rental Service

Whether it's to alleviate a temporary shortage of equipment or to procure equipment for specific applications; DrägerRental Service is an economical alternative to purchasing. Choose from our 65,000 piece inventory as well as a wide range of additional services available upon request.

D-2332-2016



## On-site Safety Service

Rental shop, personnel services or comprehensive safety management: Our on-site safety services provide you with support for all projects involving special safety challenges– and of course also during your day-to-day operations.

# Technical Data

Dimensions (H x W x D)	7 x 3 x 1.7 in (179 x 77 x 42 mm)	
Weight	Approx. 17.5 oz (495 g), depending on sensor configuration, without strap, without pump Approx. 19 oz (550 g), depending on sensor configuration, without strap, with pump	
Housing	Durable two-component housing	
Display	High-contrast color display	
Temperature	-4 to 122 F (-20 to 50 C)	
Pressure	700 to 1,300 hPa (measuring function) 800 to 1,100 hPa (use in explosion-hazard areas)	
Relative humidity	10 to 90 % (short-term up to 95 %) r.h.	
Alarms	Visual:	3 LED 'red' (gas alarms), 3 LED 'yellow' (device alarms)
	Acoustic	Multi-tone, typically 100 dB at 12 in (30 cm)
	Vibration	
Ingress protection class	IP 68	
Energy supply	Lithium-ion battery, rechargeable, inductive charging	
Operating times (Diffusion)	With CatEx and 3 EC sensors	Typically 24 hours
	With IR and 3 EC sensors	Typically 22 hours
	With 3 EC sensors	Typically 120 hours
	With CatEx, PID and 3 EC sensors	Typically 17 hours
	With IR, PID and 3 EC sensors	Typically 16 hours
	With CatEx-, IR- and 3 EC sensors	Typically 14 hours
	PID only	Typically 42 hours
Charging times	Typically 4 hours after use during a shift of max. 10 hours	
Start-up times	Typically <60 seconds for standard sensors	
Data storage	24 MB, e.g. at 10 minutes per hour of gas exposure with measuring values changing by the second on all 7 channels: approx. 400 hours	
Pump operation	Max. hose length 148 ft (45 m)	
Approvals	Marking Explosion Protection:	
	ATEX / >IECEX	I M1, II 1G Ex da ia I Ma, Ex da ia IIC T4 Ga
	cCSAus	Class I, Zone 0, AEx da ia IIC T4 Ga Class II, Div. 1, Gr. E, F, G C22.2 No. 152, ANSI-ISA 12.13.01:2000
Manufacturer's warranty	3 years for the device 1 year for the power supply Sensors: see DrägerSensor® & Portable Instruments Handbook	



# Ordering Information

## Dräger X-am® 8000

Dräger X-am® 8000 consists of: Device with power supply (Lithium-ion battery), data logger, shoulder strap and charger (optional). A fully functioning device requires up to 5 sensors and an optional integrated pump.

## Order no.

83 25 800

Instruction for use on request (please indicate when ordering), also available in the following languages:

DA, FI, NO, SV, PL, HR, SL, SK, CS, BG, RO, HU, EL, TR, KO

90 33 656

Instructions for use on request also available in the following languages: LT, LV, ET

93 00 108 available as download on the website: [www.draeger.com/ifu](http://www.draeger.com/ifu)

Technical handbook available in the following languages: DE, EN, FR, ES, RU

90 33 665 available as download on the website: [www.draeger.com/ifu](http://www.draeger.com/ifu)

Selectable device options when ordering

RFID transponder

(The charging cradle/power plug can be deselected during the ordering process.)

Slot 1:  
PID or LEL-IR/CO<sub>2</sub> HC

Slot 2:  
IR or CatEx sensor

Slots 3–5:  
Electrochemical sensors (XXS format)

Sensors	Measuring range	Resolution	Order no.
Cat-Ex 125 PR <sup>1,2</sup>	0–100 % LEL 0–100 vol % CH <sub>4</sub>	1 % LEL	68 12 950
Cat-Ex 125 PR Gas <sup>1</sup>	0–100 % LEL 0–100 vol % CH <sub>4</sub> 0–50000 ppm CH <sub>4</sub> L	1 % LEL 10ppm, Detection limit 50ppm	68 13 080
Dual IR Ex/CO <sub>2</sub> ES <sup>1</sup>	0–100 % LEL 0–100 vol % Methane, Propane, Ethene, n-Butane 0–5 vol % CO <sub>2</sub>	1 % LEL 0.1 vol % CH <sub>4</sub> 0.01 vol % CO <sub>2</sub> or 50 ppm CO <sub>2</sub>	68 51 880
Dual IR Ex/CO <sub>2</sub> HC <sup>1</sup>	0–100 % LEL 0–100 vol % Methane, Propane, Ethene, n-Butane 0–100 vol % CO <sub>2</sub>	1 % LEL 0.1 vol % CH <sub>4</sub> 0.1 vol %	68 00 276
IR Ex ES <sup>1</sup>	0–100 % LEL 0–100 vol % Methane, Propane, Ethene, n-Butane	1 % LEL 0.1 vol % CH <sub>4</sub>	68 51 881
IR CO <sub>2</sub> ES	0–5 vol % CO <sub>2</sub>	0.01 vol % CO <sub>2</sub> or 50 ppm CO <sub>2</sub>	68 51 882
PID LC ppb (10.6 eV) <sup>3</sup>	0.05–10 ppm Isobutene 0–5 ppm Benzene	depending on gas value, starting with 10 ppb	68 13 500
PID HC (10.6 eV) <sup>3</sup>	0–2,000 ppm Isobutene 0–1,000 ppm Benzene	depending on gas value, starting with 0.1 ppm	68 13 475
XXS O <sub>2</sub> <sup>2</sup>	0–25 vol %	0.1 vol %	68 10 881

# Ordering Information

XXS O <sub>2</sub> PR	0–30 vol %	0,1 vol %	68 00 530
XXS O <sub>2</sub> 100	0–100 vol %	0.5 vol %	68 12 385
XXS O <sub>2</sub> /H <sub>2</sub> S LC	0–25 vol % O <sub>2</sub> 100 ppm H <sub>2</sub> S	0.1 vol % 0.1 ppm	68 14 137
XXS CO LC <sup>2</sup>	0–2,000 ppm	1 ppm	68 13 210
XXS CO HC	0–10,000 ppm	5 ppm	68 12 010
XXS CO / H <sub>2</sub> compensated	0–2,000 ppm CO	2 ppm	68 11 950
XXS H <sub>2</sub> S LC <sup>2</sup>	0–200 ppm	0.1 ppm	68 11 525
XXS H <sub>2</sub> S HC	0–1,000 ppm	2 ppm	68 12 015
XXS CO LC / H <sub>2</sub> S LC	0–2,000 ppm CO/ 0–100 ppm H <sub>2</sub> S	1 ppm CO 0.1 ppm H <sub>2</sub> S	68 13 280
XXS CO LC / O <sub>2</sub>	0–2,000 ppm CO/ 0–25 vol %	1 ppm CO 0.1 vol % O <sub>2</sub>	68 13 275
XXS NO	0–200 ppm	0.1 ppm	68 11 545
XXS NO <sub>2</sub>	0–50 ppm	0.1 ppm	68 10 884
XXS NO <sub>2</sub> LC	0–50 ppm	0.02 ppm	68 12 600
XXS SO <sub>2</sub>	0–100 ppm	0.1 ppm	68 10 885
XXS PH <sub>3</sub>	0–20 ppm	0.01 ppm	68 10 886
XXS PH <sub>3</sub> HC	0–2,000 ppm	1 ppm	68 12 020
XXS HCN	0–50 ppm	0.1 ppm	68 10 887
XXS HCN PC	0–50 ppm	0.5 ppm	68 13 165
XXS NH <sub>3</sub>	0–300 ppm	1 ppm	68 10 888
XXS CO <sub>2</sub>	0–5 vol %	0.1 vol %	68 10 889
XXS Cl <sub>2</sub>	0–20 ppm	0.05 ppm	68 10 890
XXS H <sub>2</sub>	0–2,000 ppm	5 ppm	68 12 370
XXS H <sub>2</sub> HC	0–4 vol %	0.01 vol %	68 12 025
XXS OV	0–200 ppm	0.5 ppm	68 11 530
XXS OV-A	0–200 ppm	1 ppm	68 11 535
XXS Amine	0–100 ppm	1 ppm	68 12 545
XXS Odorant	0–40 ppm	0.5 ppm	68 12 535
XXS COCl <sub>2</sub>	0–10 ppm	0.01 ppm	68 12 005
XXS Ozone	0–10 ppm	0.01 ppm	68 11 540

HC = High concentration

<sup>1</sup> Special calibrations possible for the Ex sensors (Standard: methane).

<sup>2</sup> A five-year manufacturer's warranty applies to these sensors. Legal rights accruing from defects remain unaffected.

<sup>3</sup> To upgrade an existing instrument with PID, please order also: Spare part set sensor absorber 68 13 767

## Power supply unit

Battery (incl. back housing)	included as standard	83 26 817
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# Ordering Information

## Charging accessories

Inductive charger for charging 1 device	included as standard, deselectable	83 25 825
Adapter for power plug		83 25 736
Power plug for charging 1 device	included as standard, deselectable	83 16 997
Power plug 100-240 VAC; 1.33 A, for charging up to 5 devices	requires adapter (83 25 736)	83 21 849
Power plug 100-240 VAC; 6.25 A, for charging up to 20 devices	requires adapter (83 25 736)	83 21 850
Vehicle connector cable 12/24 V for charging 1 device		45 30 057
Vehicle connector cable 12/24 V DC for charging up to 5 devices	requires adapter (83 25 736)	83 21 855
Vehicle mount	requires adapter for power plug (83 25 736) and vehicle connector cable 12/24 V DC (83 21 855)	83 27 636
Kit vehicle charger	with power supply (83 21 855), adapter (83 25 736) and mounting kit (83 27 636)- w/o inductive power unit	83 28 283

## Pump accessories

Dust and water filter for pump inlet	included in device	83 19 364
Dust and water filter for pump inlet (package of 20 filter)		37 05 997
Pump adapter	included in device	83 26 820

## Accessories for Photoionization Detector (PID)

Pre-tube holder		68 13 769
Pre-tube benzene (package, 10 tubes)		81 03 511
Pre-tube humidity (package, 10 tubes)		81 03 531
Pre-tube activated carbon (package, 10 tubes)		CH 24 101
Tube opener TO 7000		64 01 200
Leather case set for photoionization detector, incl. Leather case for the device		83 27 639
PID lamp cleaning set		83 19 111

# Ordering Information

## Probes and hoses

Telescopic probe 100	connection for filter is included in order no. 83 19 364 (dust/water filter).	83 16 530
Telescopic probe 150, stainless steel	connection for filter is included in order no. 83 19 364 (dust/water filter).	83 16 533
GP600 probe (plastic), with adapter	connection for filter is included in order no. 83 19 364 (dust/water filter).	83 28 667
5 m FKM hose, 3.2 mm, with adapters		83 25 705
10 m FKM hose, 3.2 mm, with adapters		83 25 706
20 m FKM hose, 3.2 mm, with adapters		83 25 707
45 m FKM hose, 3.2 mm, with adapters		83 28 212
Float probe EPP, incl. 3 m hose, 3.2 mm		83 25 831
Float probe EPP, incl. 10 m hose, 3.2 mm		83 25 832
Float probe (transparent), with adapter		83 27 654

Additional probes, hoses and accessories are available. Please contact us.

## Calibration accessories

Dräger X-am® 8000 calibration adapter	(replaced by 37 20 224)	83 26 821
Dräger X-am 8000 calibration adapter 2.0		37 20 224
Dräger X-dock® Module Dräger X-am® 8000		83 21 893
Dräger X-dock® Module Dräger X-am® 8000+ charging		83 21 894
Dräger X-dock® 5300 (Dräger X-am® 8000) with Master		83 21 882
Further versions and accessories for the automatic test station Dräger X-dock®		Please contact Dräger
Test gases		Please contact Dräger.

## Accessories for measured value acquisition and configuration

Dräger CC Vision		Freeware ( <a href="http://www.draeger.com/software">www.draeger.com/software</a> )
Dräger GasVision Licence Key		83 25 646
USB Dira Dongle / IR interface		83 17 409
Holder for USB Dira Dongle		83 25 859

# Ordering Information

## Other accessories

Protective rubber boot, removable		83 25 858
Leather case for the device		83 27 664
Transport case (empty)		83 27 661
Protective Display cover (set of 3)		83 26 828
Shoulder strap (complete)	(included as standard)	83 26 823
Retractable lanyard		83 23 032
Holder for labels (on strap)	(included as standard)	83 26 824
Adhesive label for individual inscriptions, for holder on strap, silver (set of 5)		83 27 645
Adhesive label, blue (set of 5)		83 27 646
Adhesive label, red (set of 5)		83 27 647
Adhesive label, green (set of 5)		83 27 648
Adhesive label, yellow (set of 5)		83 27 649
Pedestal for holding device upright, e.g. for area monitoring		83 25 874
Transponder reader for reading the integrated RFID transponder (optional)		65 59 283

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