



Dräger X-am 8000 Multi-Gas Detector

Clearance measurement was never this easy and convenient: The 1 to 7 gas detector detects toxic and flammable gases as well as vapours and oxygen all at once – either in pump or diffusion mode. Innovative signalling design and handy assistant functions ensure complete safety throughout the process.

Dräger X-am 8000

Switch easily between pump and diffusion mode

Impact detection informs you to severe mechanical stresses

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



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 colour display with zoom function

Inductive charging

Measurement performance approval by external approval body (Europe):
Flammable gases and vapours: methane, propane, n-nonane, 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 vapours and oxygen

Specially designed for use with a pump, optimised 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 metres 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 thereby 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 colour 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 comfortable assistant to hide unused sensor channels to adapt the instrument flexible 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 possibly 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.

The performance of selected sensors has been verified by an external approval body within the scope of the measurement performance approval (EN 60079-29-1), for combustible gases and vapours for methane, propane and n-nonane, among others.

Benefits

Clear signalling design

The signal system of the Dräger X-am 8000 is based on a clear colour code, in accordance with the requirements of the EN 60079-29-1, EN 45544-1 and EN 50104:

- 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 colourful alarm LEDs, a loud horn (100 dB(A) at a distance of 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

Bump test 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 Software Dräger Gas Detection Connect a smart addition to any fleet management operation. To identify the devices in the fleet, you can either use tried and tested barcodes or an integrated RFID transponder.

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.

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 (Isobutene). The PID LC ppb is particularly suited for a measurement range of 0 to 10 ppm (Isobutene) 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.

Details



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, optional
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 ₂ , XXS CO LC, XXS H ₂ S LC, XXS NO ₂ , XXS SO ₂	Yes	Yes, configurable
Electrochemical (EC) DrägerSensors: Other sensors/special gases	No	Yes, configurable
Infrared (IR ES) DrägerSensors Dual IR Ex/CO ₂ (HC), IR-Ex, IR-CO ₂	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

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 summarised in the table above.

Accessories

D-27791-2017

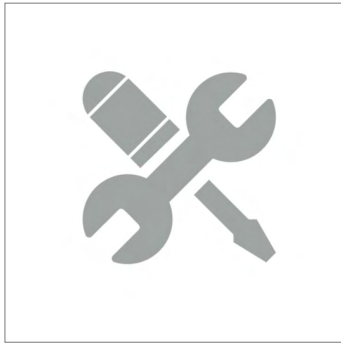


Transport bag

Transport bag for the device, rod probe (Dräger ES 150, telescopic probe) and other accessories (e.g. accessories for the PID sensor)

Services

D-2331-2016



Product service

Our product service department supports you with a range of service packages – in our shops or on site at your facility. 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.

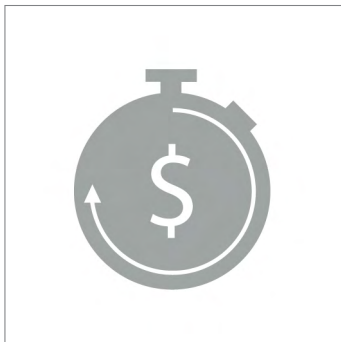
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Training

The Dräger Academy has been sharing its sound, practical knowledge for over 40 years. With over 110 authorised trainers and more than 600 available topics, we conduct more than 2,400 training sessions per year. We provide your staff with practical knowledge and ensure that what they learn can be applied effectively, both on a day-to-day basis and more importantly, in critical situations. We would be glad to develop a custom-made training programme just for you.

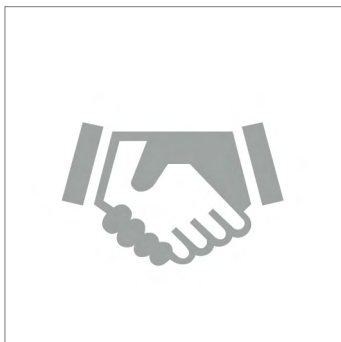
D-2330-2016



Rental Service

From bridging a temporary shortage of equipment to procuring special equipment for applications involving specific requirements: If you only need to cover a temporary higher demand, then Dräger Rental Service with over 65,000 pieces of rental equipment is an economical alternative to purchasing. Fast, straightforward and with a wide range of additional services available upon request.

D-2332-2016



On-site Safety Service

Whether through a rental shop, personnel services or comprehensive safety management, our On-Site Safety Services provide support in all projects where there are particular safety risks – not to mention normal day-to-day business.

Technical Data

Dimensions (H x W x D)	179 x 77 x 42 mm	
Weight	Approx. 495 g, depending on sensor configuration, without strap, without pump Approx. 550 g, depending on sensor configuration, without strap, with pump	
Housing	Durable two-component housing	
Display	High-contrast colour display	
Temperature	-20 °C 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(A) at 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 45 m	

Technical Data

Approvals	Marking Explosion Protection:	
	ATEX / IECEx	I M1, II 1G
		Ex da ia I Ma, Ex da ia IIC T4 Ga
	EAC	PO Ex da ia I Ma X
		OEx da ia IIC T4 Ga X
	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
	ANZEx	Ex da ia I Ma, Ex da ia IIC T4 Ga
	Measurement Performance:	Explosion protection according ATEX: EN 60079-29-1 (CatEx 125 PR, CatEx 125 PR Gas, (Dual) IR Ex, XXS H2 HC) CatEx 125 PR and (Dual) IR Ex: methane, propane, n-nonane, etc. The following applies to the CatEx 125 PR and approved gas "n-nonane": Only in conjunction with pump adapter "Nonan", part number: 3720225
		Oxygen deficiency/excess oxygen: EN 50104 (XXS O ₂ / XXS O ₂ PR)
		Toxic gases: EN 45544-1, EN 45544-2, EN 45544-3 (XXS H ₂ S LC, XXS CO LC, (Dual) IR CO ₂)
		Software: EN 50271
	Directives	2014/34/EU (ATEX)
		2011/65/EU (RoHS)
		2014/90/EU (MED)
		CE conform
	Marine Approval	DNV GL
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		Order no.
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.		8325800
Instruction for use included as standard in the following languages: DE, EN, FR, ES, PT, IT, NL, RU, ZH, JA		
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		9033656
Instructions for use on request also available in the following languages: LT, LV, ET		9300108 available as download on the website: www.draeger.com/ifu
Technical handbook available in the following languages: DE, EN, FR, ES, RU		9033665 available as download on the website: www.draeger.com/ifu
Selectable device options when ordering	Integrated pump with pump adapter	
	RFID transponder	
	(The charging cradle/power plug can be deselected during the ordering process.)	
Slot 1: PID or IR sensor	Slot 2: IR or CatEx sensor	Slots 3–5: Electrochemical sensors (XXS format)

Sensors	Measuring range	Resolution	Order no.
Cat-Ex 125 PR ^{1,2}	0–100 % LEL	1 % LEL	6812950
	0–100 vol% CH ₄		
Cat-Ex 125 PR Gas ¹	0–100 % LEL	1 % LEL	6813080
	0–100 vol% CH ₄		
	0–50000 ppm CH ₄ L	10ppm, Detection limit 50ppm	
CatEx H ₂ 100	0–100 % LEL	2 % LEL (10 ppm for gas h ₂ L for leak search)	3729050
	0–100 vol%	1 vol%	
Dual IR Ex/CO ₂ ES ¹	0–100 % LEL	1 % LEL	6851880
	0–100 vol% Methane, Propane, Ethene, n-Butane	0.1 vol% CH ₄	
	0–5 vol% CO ₂	0.01 vol% CO ₂ or 50 ppm CO ₂	
Dual IR Ex/CO ₂ HC ¹	0–100 % LEL	1 % LEL	6800276
	0–100 vol% Methane, Propane, Ethene, n-Butane	0.1 vol% CH ₄	
	0–100 vol% CO ₂	0.1 vol%	

Ordering Information

IR Ex ES ¹	0-100 % LEL 0-100 vol% Methane, Propane, Ethene, n-Butane	1 % LEL 0.1 vol% CH ₄	6851881
IR CO ₂ ES	0-5 vol% CO ₂	0.01 vol% CO ₂ or 50 ppm CO ₂	6851882
PID LC ppb (10.6 eV) ³	0.05-10 ppm Isobutene 0-5 ppm Benzene	depending on gas value, starting with 10 ppb	6813500
PID HC (10.6 eV) ³	0-2,000 ppm Isobutene 0-1,000 ppm Benzene	depending on gas value, starting with 0.1 ppm	6813475
XXS O ₂ ²	0-25 vol%	0.1 vol%	6810881
XXS O ₂ PR ²	0-30 vol%	0,1 vol%	6800530
XXS O ₂ 100	0-100 vol%	0.5 vol%	6812385
XXS O ₂ /H ₂ S LC	0-25 vol% O ₂ , 100 ppm H ₂ S	0.1 vol% 0.1 ppm	6814137
XXS CO LC ²	0-2,000 ppm	1 ppm	6813210
XXS CO HC	0-10,000 ppm	5 ppm	6812010
XXS CO / H ₂ compensated	0-2,000 ppm CO	2 ppm	6811950
XXS H ₂ S LC ²	0-200 ppm	0.1 ppm	6811525
XXS H ₂ S HC	0-1,000 ppm	2 ppm	6812015
XXS CO LC / H ₂ S LC	0-2,000 ppm CO/ 0-100 ppm H ₂ S	1 ppm CO 0.1 ppm H ₂ S	6813280
XXS CO LC / O ₂	0-2,000 ppm CO/ 0-25 vol%	1 ppm CO 0.1 vol% O ₂	6813275
XXS NO	0-200 ppm	0.1 ppm	6811545
XXS NO ₂	0-50 ppm	0.1 ppm	6810884
XXS NO ₂ LC	0-50 ppm	0.02 ppm	6812600
XXS SO ₂	0-100 ppm	0.1 ppm	6810885
XXS PH ₃	0-20 ppm	0.01 ppm	6810886
XXS PH ₃ HC	0-2,000 ppm	1 ppm	6812020
XXS HCN	0-50 ppm	0.1 ppm	6810887
XXS HCN PC	0-50 ppm	0.5 ppm	6813165
XXS NH ₃	0-300 ppm	1 ppm	6810888
XXS CO ₂	0-5 vol%	0.1 vol%	6810889
XXS Cl ₂	0-20 ppm	0.05 ppm	6810890
XXS H ₂	0-2,000 ppm	5 ppm	6812370
XXS H ₂ HC	0-4 vol%	0.01 vol%	6812025
XXS OV	0-200 ppm	0.5 ppm	6811530
XXS OV-A	0-200 ppm	1 ppm	6811535
XXS Amine	0-100 ppm	1 ppm	6812545
XXS Odorant	0-40 ppm	0.5 ppm	6812535
XXS COCl ₂	0-10 ppm	0.01 ppm	6812005
XXS Ozone	0-10 ppm	0.01 ppm	6811540

Ordering Information

ES = Energy saving

HC = High concentration

¹ Special calibrations possible for the Ex sensors (Standard: methane).

² A three-year manufacturer's warranty applies to these sensors. Legal rights accruing from defects remain unaffected.

³ To upgrade an existing instrument with PID, please order also: Spare part set sensor absorber 6813767

Power supply unit

Energy supply (incl. back housing)	included as standard	8326817
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Charging accessories

Inductive charger for charging 1 device	included as standard, deselectable	8325825
Adapter for power plug		8325736
Power plug for charging 1 device	included as standard, deselectable	8316997
Power plug 100-240 VAC; 1.33 A, for charging up to 5 devices	requires adapter (8325736)	8321849
Power plug 100-240 VAC; 6.25 A, for charging up to 20 devices	requires adapter (8325736)	8321850
Vehicle connector cable 12/24 V, for charging 1 device		4530057
Vehicle connector cable 12/24 V DC, for charging up to 5 devices	requires adapter (8325736)	8321855
Vehicle mount	requires adapter for power plug (8325736) and vehicle connector cable 12/24 V DC (8321855)	8327636
Kit vehicle charger	with power supply (8321855), adapter (8325736) and mounting kit (8327636) – w/o inductive power unit	8328283

Pump accessories

Dust and water filter for pump inlet	included in device when pump option is selected	8319364
Dust and water filter for pump inlet (package of 20 filter)		3705997
Pump adapter	included in device when pump option is selected	8326820
Pump adapter "Nonane"	Required if the measurement performance approval according to EN 60079-29-1 is required for the CatEx for measurement gas "Nonane".	3720225

Ordering Information

Accessories for Photoionisation Detector (PID)

Pre-tube holder		6813769
Pre-tube benzene (package, 10 tubes)		8103511
Pre-tube humidity (package, 10 tubes)		8103531
Pre-tube activated carbon (package, 10 tubes)		CH24101
Tube opener TO 7000		6401200
Leather case set for photoionisation detector, incl. Leather case for the device		8327639
PID lamp cleaning set		8319111

Probes and hoses

Telescopic probe 100	connection for filter is included in order no. 8319364 (dust/water filter).	8316530
Telescopic probe 150, stainless steel	connection for filter is included in order no. 8319364 (dust/water filter).	8316533
GP600 probe (plastic), with adapter	connection for filter is included in order no. 8319364 (dust/water filter).	8328667
5 m FKM hose, 3.2 mm, with adapters		8325705
10 m FKM hose, 3.2 mm, with adapters		8325706
20 m FKM hose, 3.2 mm, with adapters		8325707
45 m FKM hose, 3.2 mm, with adapters		8328212
Float probe EPP, incl. 3 m hose, 3.2 mm		8325831
Float probe EPP, incl. 10 m hose, 3.2 mm		8325832
Float probe (transparent), with adapter		8327654
Additional probes, hoses and accessories are available. Please contact us.		

Calibration accessories

Dräger X-am 8000 calibration adapter	replaced by 3720224	8326821
Dräger X-am 8000 calibration adapter 2.0		3720224
Dräger X-dock Module Dräger X-am 8000		8321893
Dräger X-dock Module Dräger X-am 8000+ charging		8321894
Dräger X-dock 5300 (Dräger X-am 8000) with Master		8321882
Further versions and accessories for the automatic test station Dräger X-dock		Please contact Dräger.
Nonane tester		8325861
Test gases		Please contact Dräger.

Ordering Information

Accessories for measured value acquisition and configuration

Dräger CC Vision		Freeware (www.draeger.com/software)
Dräger GasVision Licence Key		8325646
USB Dira Dongle / IR interface		8317409
Holder for USB Dira Dongle		8325859

Other accessories

Protective rubber boot, removable		8325858
Leather case for the device		8327664
Transport case (empty)		8327661
Protective Display cover (set of 3)		8326828
Shoulder strap (complete)	(included as standard)	8326823
Retractable lanyard		8323032
Holder for labels (on strap)	(included as standard)	8326824
Adhesive label for individual inscriptions, for holder on strap, silver (set of 5)		8327645
Adhesive label, blue (set of 5)		8327646
Adhesive label, red (set of 5)		8327647
Adhesive label, green (set of 5)		8327648
Adhesive label, yellow (set of 5)		8327649
Pedestal for holding device upright, e.g. for area monitoring		8325874
Transponder reader for reading the integrated RFID transponder (optional)		6559283

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