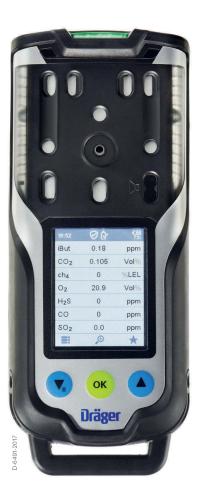# Dräger X-am® 8000
Multi-Gas Detector

Clearance measurement was never this easy and convenient: The Dräger X-am® 8000 measures up to seven gases, including toxic, flammable gases and vapors, and oxygen all at once—either in pump or diffusion mode. Innovative signaling design and handy wizard functions ensure complete safety throughout the process.

Switch easily between pump and diffusion mode

Impact detection informs you of severe mechanical stresses

Intuitive smart assistants for clearance measurement, leak detection, and benzene-specific testing with the PID (pre-tube)

Glowing green D-light indicates that the unit is tested and ready for use

Five slots for DrägerSensors® to measure up to seven gases, two new high-performance PID sensors

Easy-to-read color display with zoom function

Inductive charging for reduced maintenance

D-6491-2017

Dräger. Technology for Life®

Benefits

Specially designed for use with its internal pump, optimized for your requirements

The Dräger X-am® 8000 is equipped with a very powerful internal 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 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 color display clearly lays out all the information for you.

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.

When monitoring for high methane concentrations, a configurable 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%.

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(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 recognize the type of hazard based purely on the symbol displayed.

The X-am 8000 is equipped with a shock 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.

Benefits

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 X-dock Manager PC software 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.

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 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 the same time, e.g, when in use inside vehicles or on machinery.

The charging cradles 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

At a Glance Features of the Dräger X-am® 8000

Features	Dräger X-am® 8000
Number of measuring gases	1 to 7
Internal pump, activated with pump adapter	Yes, optional
Inductive charging	Yes
Customer-specific settings when ordering	Yes
Shoulder strap included as standard	Yes
Catalytic bead sensor DrägerSensor CatEx 125 PR	Yes, configurable
Available electrochemical (EC) DragerSensors: XXS O_2, XXS CO LC, XXS H_2S LC, XXS NO_2, XXS SO_2	Yes, configurable
Electrochemical (EC) DrägerSensors: other sensors/special gases	Yes, configurable
Infrared (IR) DrägerSensors Dual IR Ex/CO_2, IR-Ex, IR-CO_2	Yes, configurable
Photoionization detector (PID) DrägerSensors: PID HC, PID LC ppb	Yes, configurable
Automatic measurement range switching for the catalytic bead sensor, catalytic bead sensor, measuring gas: methane	Yes, configurable
Assistants: Confined Space, Leak Search, Benzene/Pre-Tube	Yes, only when a pump is installed
Event report (incl. shock detection)	Yes, configurable

Accessories

D-6562-2017

Inductive charger

Inductive charging reduces maintenance because there are no metal contacts required for charging.
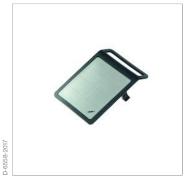

D-6545-2017

Pedestal

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

D-6555-2017

Protective rubber boot

Prevents damage and wear in harsh environments. The protective boot can easily be replaced by the user.

D-6558-2017

Adhesive label

The adhesive label attaches to the bottom of the X-am and can have device-specific information inscribed on it, such as the sensor configuration.

Services

D-19072-2016

Dräger Service

When your operation's safety equipment is backed by over 125 years of experience and supported by the same team that engineered it, you can rely on service and rental solutions that are tailored to meet your unique needs. With Dräger's safety solutions, you get complete peace of mind, budget security, and full-service support that you can count on every step of the way. That's the Dräger Service Advantage.

Technical Data

Dimensions (H x W x D)	7.0 x 3.0 x 1.7 in (179 x 77 x 42 mm)	
Weight	Approx. 495 g (17.5 ounces), depending on sensor configuration, without strap, without pump	
	Approx. 550 g (19.4 ounces), depending on sensor configuration, without strap, with pump	
Housing	Durable two-component housing	
Display	High-contrast color display	
Temperature	-4° F to 122° F (-20° C to 50° C)	
Pressure	700 to 1,300 hPa	
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 67	
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
	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	12 MB, e.g. at 10 minutes per hour of gas exposure with measuring values changing by the second on all 7 channels: approx. 210 hours	
Pump operation	Max. hose length 147.6 feet (45m)	
Approvals	ATEX / IECEx	I M1, II 1G
		Ex da ia I Ma, Ex da ia IIC T4 Ga
		Metrological approval pending
	cCSAus (Please contact Dräger regarding availability.)	Class I, Zone 0, AEx da ia IIC T4 Ga
		Class II, Div 1, Gr. E, F, G T4
		C22.2 No. 152, ANSI-ISA 12.13.01:2000
	CE labelling	
	MED / DNV GL (Please contact Dräger regarding availability.)	
Warranty	3 years for the device	
	1 year for the power supply	
	Sensors: see DrägerSensor® & Portable Instruments Handbook	

Ordering Information

Dräger X-am® 8000 consists of: Device with power supply (Lithium-ion battery), data logger, shoulder strap, manufacturer's certificate, certificate of calibration, and charger (optional). A fully functioning device allows up to 5 sensors and an optional integrated pump. Instruction for use included as standard in the following languages: DE, EN, FR, ES, PT, IT, NL, RU, ZH, JA	83 25 800
Free 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

Ordering Information

Technical handbook available in the following languages: DE, EN, FR, ES, RU   Available to download from the product website.

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:	Slot 2:	Slots 3-5:
PID or IR sensor	IR or CatEx sensor	Electrochemical sensors (XXS format)

	Measuring range	Resolution	Order No.
Cat-Ex 125 PR[1, 2]	0–100 % LEL	1 % LEL	68 12 950
	0–100 vol% CH_4		
Cat-Ex 125 PR Gas[1]	0–100 % LEL	1 % LEL	68 13 080
	0–100 vol% CH_4		
Dual IR Ex/CO_2 [1]	0–100 % LEL	1 % LEL	68 11 960
	0–100 vol% CH_4	0.2 vol%	
	0–5 vol% CO_2	0.01 vol% CO_2 or 50 ppm CO_2	
IR Ex[1]	0–100 % LEL	1 % LEL	68 12 180
	0–100 vol% CH_4	0.2 vol%	
IR CO_2	0–5 vol% CO_2	0.01 vol% CO_2 or 50 ppm CO_2	68 12 190
DrägerSensor® PID LC ppb (10.6 eV)	0.025–10 ppm Isobutylene	0–2 ppm / 10 ppb	68 13 500
		> 2–5 ppm / 20 ppb	
		> 5–10 ppm / 50 ppb	
DrägerSensor® PID HC (10.6 eV)	0–2,000 ppm Isobutylene	0–20 ppm / 100 ppb	68 13 475
		> 20–50 ppm / 200 ppb	
		> 50–100 ppm / 500 ppb	
		> 100–200 ppm / 1 ppm	
		> 200–500 ppm / 2 ppm	
		> 500–1,000 ppm / 5 ppm	
		> 1,000–2,000 ppm / 10 ppm	
DrägerSensor® XXS O_2 [2]	0–25 vol%	0.1 vol%	68 10 881
DrägerSensor® XXS O_2 100	0–100 vol%	0.5 vol%	68 12 385
DrägerSensor® XXS CO LC [2]	0–2,000 ppm	1 ppm	68 13 210
DrägerSensor® XXS CO HC	0–10,000 ppm	5 ppm	68 12 010
DrägerSensor® XXS CO/H_2 compensated	0–2,000 ppm CO	2 ppm	68 11 950
DrägerSensor® XXS H_2S LC[2]	0–100 ppm	0.1 ppm	68 11 525
DrägerSensor® XXS H_2S HC	0–1,000 ppm	2 ppm	68 12 015
DrägerSensor® XXS CO LC/ H_2S LC	0–2,000 ppm CO/ 0–100 ppm H_2S	1 ppm CO 0.1 ppm H_2S	68 13 280
DrägerSensor® XXS CO LC/O_2	0–2,000 ppm CO/ 0–25 vol%	1 ppm CO 1 vol% O_2	68 13 275
DrägerSensor® XXS NO	0–200 ppm	0.1 ppm	68 11 545
DrägerSensor® XXS NO_2	0–50 ppm	0.1 ppm	68 10 884
DrägerSensor® XXS NO_2 LC	0–50 ppm	0.02 ppm	68 12 600
DrägerSensor® XXS SO_2	0–100 ppm	0.1 ppm	68 10 885
DrägerSensor® XXS PH_3	0–20 ppm	0.01 ppm	68 10 886
DrägerSensor® XXS PH_3 HC	0–2,000 ppm	1 ppm	68 12 020
DrägerSensor® XXS HCN	0–50 ppm	0.1 ppm	68 10 887

Ordering Information

DrägerSensor® XXS HCN PC	0–50 ppm	0.5 ppm	68 13 165
DrägerSensor® XXS NH$_3$	0–300 ppm	1 ppm	68 10 888
DrägerSensor® XXS CO$_2$	0–5 vol%	0.1 vol%	68 10 889
DrägerSensor® XXS Cl$_2$	0–20 ppm	0.05 ppm	68 10 890
DrägerSensor® XXS H$_2$	0–2,000 ppm	5 ppm	68 12 370
DrägerSensor® XXS H$_2$ HC	0–4 vol%	0.01 vol%	68 12 025
DrägerSensor® XXS OV	0–200 ppm	0.5 ppm	68 11 530
DrägerSensor® XXS OV-A	0–200 ppm	1 ppm	68 11 535
DrägerSensor® XXS Amine	0–100 ppm	1 ppm	68 12 545
DrägerSensor® XXS Odorant	0–40 ppm	0.5 ppm	68 12 535
DrägerSensor® XXS COCl$_2$	0–10 ppm	0.01 ppm	68 12 005
DrägerSensor® XXS Ozone	0–10 ppm	0.01 ppm	68 11 540

Sensors with five-year guarantee

DrägerSensor® XXS E CO	0–2,000 ppm	2 ppm	68 12 212
DrägerSensor® XXS E H$_2$S	0–200 ppm	1 ppm	68 12 213
DrägerSensor® XXS E O$_2$	0–25 vol%	0.1 vol%	68 12 211

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

[2] A three-year warranty applies to these sensors. Legal rights accruing from defects remain unaffected.

Power supply unit

Energy supply (incl. back housing)	(included as standard)	83 26 817

Charging accessories

Inductive charger for charging 1 device	(Included as standard, deselectable)	83 25 825
Adapter for power plug	(Included as standard, deselectable)	83 25 736
Power plug for charging 2 devices		83 15 635
Power plug for charging 5 devices		83 16 994
Power plug 100-240 VAC; 1.33 A, for charging up to 5 devices	(Included as standard, deselectable)	83 21 849
Power plug 100-240 VAC; 6.25 A, for charging up to 20 devices		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		83 21 855
Vehicle mount		83 27 636

Pump accessories

Dust and water filter for pump inlet	(included in device when pump option is selected)	83 19 364
Pump adapter	(included in device when pump option is selected)	83 26 820

Calibration accessories

Dräger X-am® 8000 calibration adapter		83 26 821
Dräger X-am® 8000 X-dock® Module		83 21 893
Dräger X-am® 8000 X-dock® Module + Charging		83 21 894
Dräger X-dock® 5300 (X-am® 8000 with Master)		83 21 882
Nonane tester		83 25 861

Ordering Information

Test gases		Please contact Dräger.
Accessories for measured value acquisition and configuration		
Dräger CC Vision		Freeware (www.draeger.com/software)
Dräger GasVision License Key		83 25 646
USB Dira Dongle / IR interface		83 17 409
Holder for USB Dira Dongle		83 25 859
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 three)		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 labels for individual inscriptions, for holder on strap, silver (set of 5)	(included as standard)	83 27 645
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
Accessories for Photoionization Detector (PID)		
Pre-tube holder		68 13 769
Pre-tube benzene (package, 10 units)		81 03 511
Pre-tube humidity (package, 10 units)		81 03 531
Pre-tube activated carbon (package, 10 units)		CH24101
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
Probes and Hoses		
Telescopic probe 100	Connection for filter is included in SN 83 19 364 (Dust/Water Filter).	83 16 530
Telescopic probe 150, stainless steel	Connection for filter is included in SN 83 19 364 (Dust/Water Filter).	83 16 533
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
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 from Dräger. Please contact us.		

Notes

Notes

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www.draeger.com/contact**