

## Dräger X-am<sup>®</sup> 5000 Multi-Gas Detector

The Dräger X-am<sup>®</sup> 5000 belongs to a generation of gas detectors, developed especially for personal monitoring applications. This 1- to 5-gas detector reliably measures combustible gases and vapors as well as oxygen and harmful concentrations of toxic gases, organic vapors, Odorant and Amine.



## Benefits

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### Ergonomic design

Despite its advanced functionality, the Dräger X-am 5000's practical mobile phone design and light weight make it comfortable to carry. Reduced to its essentials, the two button control panel and easy to follow menu allow for intuitive use.

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### Flexible sensor exchange

It is easy to exchange, upgrade or calibrate the sensors to other gases. The ability to customize the Dräger X-am 5000's sensors makes more applications possible, including rental equipment.

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### Poison-resistant Ex sensor

For improved safety when facing unknown and potentially explosive hazards – the Dräger X-am 5000 provides dependable warnings in the event of explosive atmospheres thanks to the high level of sensitivity of the innovative catalytic Ex sensor. It not only responds quickly to explosive gases and combustible organic vapors, but is also highly resistant against sensor poisons such as silicone and hydrogen sulfide. In combination with its long term stability this offers an extraordinary long expected sensor lifetime of more than 4 years. This reduces your operational costs.

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### Durable sensor technology

Equipped with durable XXS sensor technology, the Dräger X-am 5000 offers maximum safety at extremely low operational costs. The sensor's resistance, in combination with its long term stability, provides the sensor with a lifetime in excess of four years, which can help reduce your operational costs.

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### Robust and watertight

The Dräger X-am 5000 is water and dust resistant according to IP 67 standards. This means that the detector remains fully functional and ready for use even after being dropped into water. The integrated rubber protection and shock-proof sensors provide additional resistance to impact and vibration. Moreover, the Dräger X-am 5000 is resistant to electromagnetic interference.

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### External pump

The optional external pump, which operates with a hose up to 45 meters long, makes it possible to use the detector for pre-entry measurements into confined spaces such as tanks, shafts, etc. The pump starts automatically when the detector is attached.

## Benefits

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### Area monitoring

In combination with the Dräger X-zone® 5500 the gas detector can be used for various area monitoring applications. Up to 25 Dräger X-zone 5500 units can be automatically interconnected to form a wireless fenceline. This interconnection of the area monitoring devices allows fast securing of larger areas, e.g. pipelines or industrial tanks – even within the scope of industrial shutdowns.

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### Optimum solutions for function or bump tests and calibrations

Simple, fast and professional: from a function or bump test to complete documentation, users can choose from a range of practical, on-site solutions that offer maximum safety for every application. The automatic test and calibration station Dräger X-dock® and the Dräger Bump Test Station are ideal system extensions that save time and reduce workload. Fresh air, mixed gas and single gas calibrations can be done directly using the Dräger X-am 5000 menu.

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### Flexible power supply

The Dräger X-am 5000 can be used with alkaline batteries. In addition, it can be fitted with a rechargeable NiMH T4 battery that can be charged while still inside the instrument. An optional Save Energy Mode makes it possible to increase the operating time of Dräger X-am 5000 to more than 40 hours. This is done by selecting a measurement interval of either 1 second (the standard), 10 or 20 seconds for the CatEx sensor.

## System Components



D-12191-2010

### DrägerSensor XXS

Dräger has developed miniature electrochemical sensors specially for the Dräger Pac®, X-am® 1/2/5 and X-am® 8000 generation. The sensors detect many different gases and vapours. They are also very reliable and stable over the long-term, thereby reducing your operating costs.



D-27736-2017

### Dräger Catalytic Ex-Sensors

High product quality, low operational costs: Thanks to DrägerSensor CatEx PR technology, our sensors are resistant to poisoning and particularly stable over the long-term. They also deliver fast response times for rapid warnings of gas hazards.



D-47907-2012

### Dräger X-dock® 5300/6300/6600

The Dräger X-dock® series provides you with full control of your portable Dräger gas detection instruments. Automatic bump tests and calibrations with reduced test gas consumption and short testing times save time and money. Comprehensive documentation and evaluations provide you with a clear overview.



ST-740-2006

### Dräger Bump Test Station

Easy to use, stand-alone and portable. With the Bump Test Station, functionality tests of gas detection and warning devices can be carried out easily and quickly.

## Accessories



D-11857-2016

### Dräger X-am® Pump

The Dräger X-am® Pump is an external pump for the portable gas detectors Dräger X-am® 2500, 5000, and 5600 – designed for clearance measurement, for example in tanks and shafts. The pump automatically switches on when it is connected to a running X-am® device. The change from pump mode to diffusion mode is fast and easy.



D-12284-2009

### Power pack & Charging set

Consisting of: NiMH power supply, charging module, single charger



D-0494-2018

### 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.



D-30746-2015

### Dräger Configuration and Evaluation Software

Save measurement results, professionally configure gas detection instruments and viewing performance data – all that is possible with the tailor-made Dräger software.

## Related Products



D-27784-2009

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### Dräger X-am® 5600

Featuring an ergonomic design and innovative infrared sensor technology, the Dräger X-am® 5600 is one of the smallest gas detection instrument for the measurement of up to 6 gases. Ideal for personal monitoring applications, this robust and water-tight detector provides accurate, reliable measurements of explosive, combustible and toxic gases and vapors as well as oxygen.



D-6491-2017

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### Dräger X-am® 8000

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.

## Technical Data

Dimensions (W x H x D)	48 x 130 x 44 mm		
Weight	220 – 250 g		
Ambient conditions	Temperature	-20 to +50 °C (-40 to +50 °C for max. 15 minutes)	
	Pressure	700 to 1,300 mbar	
	Relative humidity	10 to 95 % r.h.	
Protection class	IP 67		
Alarms	Visual	360°	
	Audible	Multi-tone > 90 dB at 30 cm	
	Vibration		
Operating times	> 12 hours with Alkaline and NiMH > 13 hours with NiMH HC; without Ex Sensor typ > 250 hours with Alkaline Battery > 40 hours when using the Save Energy Mode		
Charging time	< 4 h		
Datalogger	Can be read out via Infrared > 1,000 hours with 5 gases and a recording interval of 1 value per minute		
Pump operation	Maximum hose length 45 m; 148 ft.		
Approvals	ATEX	I M1 Ex da ia I Ma II 1G Ex da ia IIC T4/T3 Ga	
	IECEX	IECEX Ex da ia I Ma Ex da ia IIC T4/T3 Ga	
	CSA (Canada & USA)	Class I Div. 1 Group A, B, C, D, E, F, G T.-Code T4/T3 A/Ex da ia IIC T4/T3 /Ga	
	Measurement performance certificate	EN 50104	O <sub>2</sub>
		EN 45544-1, EN 45544-2	CO & H <sub>2</sub> S
		EN 60079-29-1	Methane to nonane, H <sub>2</sub>
CE mark	Electromagnetic Compatibility (Directive 2014/30/EU)		
MED	Marine Equipment Directive (Directive 2014/90/EU)		
EAC	PO Ex da ia I Ma X OEx da ia IIC T4/T3 Ga X		

## Ordering Information

### Dräger X-am® 5000 <sup>2</sup>

Consisting of: basic instrument with an integrated data logger and manufacturer's and calibration certificates.

83 20 000

A functional instrument must include up to 4 sensors and a power supply unit (option).

Description	Measuring range	Resolution	Order code
CatEx 125 PR 1,2	0 – 100 % LEL	1 % LEL	68 12 950
	0 – 100 Vol.-% CH <sub>4</sub>	1 Vol.-%	
CatEx 125 PR Gas 1	0 – 100 % LEL	1 % LEL	68 13 080
	0 – 100 Vol.-% CH <sub>4</sub>	1 Vol.-%	
DrägerSensor XXS O <sub>2</sub> <sup>2</sup>	0 – 25 Vol.-%	0.1 Vol.-%	68 10 881
DrägerSensor XXS O <sub>2</sub> 100	0 – 100 Vol.-%	0.5 Vol.-%	68 12 385
DrägerSensor XXS CO LC	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 <sub>2</sub> compensated	0 – 2,000 ppm CO	2 ppm	68 11 950

## Ordering Information

DrägerSensor XXS H <sub>2</sub> S LC <sup>2</sup>	0 – 100 ppm	0.1 ppm	68 11 525
DrägerSensor XXS H <sub>2</sub> S HC	0 – 1,000 ppm	2 ppm	68 12 015
DrägerSensor XXS CO LC / H <sub>2</sub> S LC	0 – 2,000 ppm CO 0 – 200 ppm H <sub>2</sub> S	1 ppm CO 0.1 ppm H <sub>2</sub> S	68 13 280
DrägerSensor CO LC / O <sub>2</sub>	0 – 2,000 ppm CO 0 – 25 Vol.-% O <sub>2</sub>	1 ppm CO 0.1 Vol.-% O <sub>2</sub>	68 13 275
DrägerSensor XXS H <sub>2</sub> S LC / O <sub>2</sub>	0 – 100 ppm H <sub>2</sub> S 0 – 25 Vol.-% O <sub>2</sub>	0.1 ppm H <sub>2</sub> S 0.1 Vol.-% O <sub>2</sub>	68 14 137
DrägerSensor XXS NO	0 – 200 ppm	0.1 ppm	68 11 545
DrägerSensor XXS NO <sub>2</sub>	0 – 50 ppm	0.1 ppm	68 10 884
DrägerSensor XXS NO <sub>2</sub> LC	0 – 50 ppm	0.02 ppm	68 12 600
DrägerSensor XXS SO <sub>2</sub>	0 – 100 ppm	0.1 ppm	68 10 885
DrägerSensor XXS PH <sub>3</sub>	0 – 20 ppm	0.01 ppm	68 10 886
DrägerSensor XXS PH <sub>3</sub> HC	0 – 2,000 ppm	1 ppm	68 12 020
DrägerSensor XXS HCN	0 – 50 ppm	0.1 ppm	68 10 887
DrägerSensor XXS HCN PC	0 – 50 ppm	0,5 ppm	68 13 165
DrägerSensor XXS NH <sub>3</sub>	0 – 300 ppm	1 ppm	68 10 888
DrägerSensor XXS CO <sub>2</sub>	0 – 5 Vol.-%	0.1 Vol.-%	68 10 889
DrägerSensor XXS Cl <sub>2</sub>	0 – 20 ppm	0.05 ppm	68 10 890
DrägerSensor XXS H <sub>2</sub>	0 – 2,000 ppm	5 ppm	68 12 370
DrägerSensor XXS H <sub>2</sub> 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 <sub>2</sub>	0 – 10 ppm	0.01 ppm	68 12 005
DrägerSensor XXS Ozon	0 – 10 ppm	0.01 ppm	68 11 540

<sup>1</sup> Special calibration for Ex sensors are available (standard setting: Methane)

<sup>2</sup> Dräger provides a 3 year manufacturer's warranty on the Dräger X-am® 5000 and these sensors. The legal rights arising from defects remain unaffected.

### Sensors with a 5 year manufacturer's warranty

DrägerSensor XXS E CO	0 – 2,000 ppm	2 ppm	68 12 212
DrägerSensor XXS E H <sub>2</sub> S	0 – 200 ppm	1 ppm	68 12 213
DrägerSensor XXS E O <sub>2</sub>	0 – 25 Vol.-%	0.1 Vol.-%	68 12 211

### Power supply units

NiMH power pack T4	83 18 704
Power pack & charging set	83 18 785
Consisting of: rechargeable NiMH power supply T4, charging module and a single charger (for worldwide use)	
NiMH power pack T4 high capacity	83 22 244
Alkaline power pack T3 / T4 (without alkaline batteries)	83 22 237
Alkaline batteries T3 (2 pc.) for alkaline power supply 83 22 237	83 22 239
Alkaline battery T4 (2 pcs.)	83 22 240

### Charging accessories

Charging module	83 18 639
Charging set basic consisting of one charging module and a single power supply (worldwide use)	83 20 333
Power plug 100-240 VAC; 6.25 A, for charging up to 20 devices	83 21 850



## Ordering Information

Adapter for power plug 83 25 736 is need in addition.

Single charger (worldwide use) for max. 5 charging modules	83 16 994
Car charging connection cable 12 / 24 V for a charging module	45 30 057
Vehicle charger mounting kit for a X-am® 1/2/5x00 car charging module	83 18 779
Charging adapter for charging a rechargeable battery without X-am® device	83 26 101

### Pump accessories

Dräger X-am® Pump (external pump)	83 27 100
Dräger X-am® Pump incl. USB charger and shoulder strap	83 27 115
Hand pump adapter	83 19 195
CSE Set Dräger X-am® Pump (incl. 5 m FKM hose)	83 27 117
Case for Dräger X-am® Pump	83 27 104

### Calibration accessories

Calibration cradle for X-am® 1/2/5x00	83 18 752
Dräger X-dock® for Dräger X-am® 1/2/5x00, not including gas cylinder	83 21 880
Dräger Bump Test Station for Dräger X-am® 5000, not including gas cylinder	83 19 131
Dräger Bump Test Station for Dräger X-am® 5000, complete with one test gas cylinder 58L (gases and concentration variable)	83 19 130
Nonane Checker for Dräger X-am® 5000	83 20 080

### Communication accessories / software

Dräger GasVision 7 license key	83 25 646, software: <a href="http://www.draeger.com/software">www.draeger.com/software</a> (free trial version)
Dräger CC-Vision	<a href="http://www.draeger.com/software">www.draeger.com/software</a>
USB DIRA with USB cable, communication adapter infrared to USB	83 17 409

### Cases

Leather carrying case X-am® device	83 18 755
Transport case (empty) for X-am® device, pump, gas cylinder, hose and more	83 27 112

### Area monitoring <sup>1</sup>

Dräger X-zone® 5500, 868 MHz, 24 Ah battery with diffusion cap	83 24 819
Dräger X-zone® 5500 with integrated pump, 868 MHz, 24 Ah battery with diffusion and pump cap	83 24 821

<sup>1</sup> Further versions (915 MHz, 433 MHz, 429 MHz) available on request

## Notes

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