

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

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 O<sub>2</sub> and harmful concentrations of toxic gases, organic vapors, Odorant and Amine.



## Benefits

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### Ergonomic mobile phone 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 will reduce your operational costs.

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### Durable sensor technology

Equipped with durable XXS sensor technology, the Dräger X-am 5000 offers maximum security 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 30 (98 feet) 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 inserted.

## Benefits

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### Area monitoring

In combination with the Dräger X-zone® 5000 the gas detector can be used for various area monitoring applications. Up to 25 Dräger X-zone 5000 units can be automatically interconnected to form a wireless fence line. This interconnection of the area monitoring devices allows for the 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 the standard alkaline batteries. In addition, it can be fitted with a 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

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### DrägerSensor XXS

A small sensor - a giant step into the future: The new DrägerSensor XXS range is remarkably compact, and boasts an even higher performance than the competition.



D-317-28-2011

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### Dräger Catalytic Ex-Sensors

Multiple gases at the same time: The DrägerSensor Cat Ex measures combustible gases and vapors in the air.



ST-740-2006

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### 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



ST-9477-2007

### Dräger X-am 125, external pump

External pump for hose length of up to 30 meters (98 feet). 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 inserted. The change between diffusion and pump operation is quickly and easily possible without any need for additional tools or steps.



D-12284-2009

### Power pack & Charging set

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



ST-15011-2008

### Leather carrying case



ST-14360-2008

### Calibration cradle

## 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 options are available to provide this facility.



### 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



### Dräger X-am® 5600

Featuring an ergonomic design and innovative infrared sensor technology, the Dräger X-am 5600 is 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.

## Related Products



ST-67-2006

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### Dräger X-am® 7000

Dräger X-am® 7000 is the solution for the simultaneous and continuous measurement of up to five gases. It is the ideal companion in a variety of applications where the reliable detection of oxygen, toxic and combustible gases and vapors are necessary.

## Technical Data

Dimensions (W x H x D)	48 x 130 x 44 mm; 1.89 x 5.12 x 1.73 in.	
Weight	220 - 250 g; 7.8 - 8.8 oz.	
Ambient conditions	Temperature	-20 - +50 °C; -4 - 122 °F
	Pressure	700 - 1,300 hPa
	Humidity	10 - 95% r.h.
Alarms	Visual	360°
	Audible	Multi-tone > 90 dB at 30 cm
	Vibrating	
Ingress Protection	IP 67	
Operating time	> 12 hours with Alkaline and NiMH; > 13 hours with NiMH HC; without Ex Sensor typ. > 250 hours with Alkaline Battery; when using the Save Energy Mode > 40 hours	
Charging time	< 4 hours	
Data logger	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 30 m; 98 ft.	
Approvals	ATEX	I M1 Ex ia I Ma, II 1G Ex ia IIC T3 Ga, I M2 Ex d ia I Mb, II 2G Ex d ia IIC T4 / T3 Gb
		Performance approval to:
		EN 50104 (2002) + A1 (2004)      O <sub>2</sub>
		EN 45544                              CO & H <sub>2</sub> S
		EN 60079-29-1:2007              Methane to nonane
		EN 50271:2010                      Software and documentation
	CSA	Class I, Div. 1 Group A, B, C, D T.-Code T4 / T3
	IECEX	Ex ia I
		Ex ia IIC T3
		Ex d ia I
	Ex d ia IIC T4/T3	
CE-mark	Electromagnetic compatibility Directive 2004 / 108 / EG; EN 50270:2006	
MED	Marine Equipment Directive 96 / 98 / EC	
MSHA		

## 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.

Description	Measuring range	Resolution	Response time (t <sub>90</sub> )	Order code
CatEx 125 PR <sup>2)</sup>	0 - 100 % LEL 0 - 100 Vol.-% CH <sub>4</sub>	1 % LEL	10 sec.	68 12 950
CatEx 125 PR Mining	0 - 100 % LEL 0 - 100 Vol.-% CH <sub>4</sub>	1 % LEL	10 sec.	68 13 080
DrägerSensor XXS O <sub>2</sub> <sup>2)</sup>	0 - 25 Vol.-%	0.1 Vol.-%	10 sec.	68 10 881
DrägerSensor XXS CO <sup>2)</sup>	0 - 2,000 ppm	2 ppm	15 sec.	68 10 882
DrägerSensor XXS CO LC	0 - 2,000 ppm	1 ppm	15 sec.	68 13 210
DrägerSensor XXS CO HC	0 - 10,000 ppm	5 ppm	25 sec.	68 12 010

## Ordering Information

DrägerSensor XXS CO / H <sub>2</sub> compensated	0 - 2,000 ppm CO	2 ppm	25 sec.	68 11 950
DrägerSensor XXS H <sub>2</sub> S	0 - 200 ppm	1 ppm	15 sec.	68 10 883
DrägerSensor XXS H <sub>2</sub> S LC <sup>2)</sup>	0 - 100 ppm	0.1 ppm	15 sec.	68 11 525
DrägerSensor XXS H <sub>2</sub> S HC	0 - 1,000 ppm	2 ppm	15 sec.	68 12 015
DrägerSensor XXS CO / H <sub>2</sub> S	0 - 2,000 ppm CO / 0 - 200 ppm H <sub>2</sub> S	1 ppm H <sub>2</sub> S / 2 ppm CO	20 sec.	68 11 410
DrägerSensor XXS NO	0 - 200 ppm	0.5 ppm	10 sec.	68 11 545
DrägerSensor XXS NO <sub>2</sub>	0 - 50 ppm	0.1 ppm	15 sec.	68 10 884
DrägerSensor XXS NO <sub>2</sub> LC	0 - 50 ppm	0.02 ppm	15 sec.	68 12 600
DrägerSensor XXS SO <sub>2</sub>	0 - 100 ppm	0.1 ppm	15 sec.	68 10 885
DrägerSensor XXS PH <sub>3</sub>	0 - 20 ppm	0.01 ppm	10 sec.	68 10 886
DrägerSensor XXS PH <sub>3</sub> HC	0 - 2,000 ppm	1 ppm	10 sec.*	68 12 020
DrägerSensor XXS HCN	0 - 50 ppm	0.1 ppm	10 sec.*	68 10 887
DrägerSensor XXS HCN PC	0 - 50 ppm	0,5 ppm	10 sec.*	68 13 165
DrägerSensor XXS NH <sub>3</sub>	0 - 300 ppm	1 ppm	10 sec.*	68 10 888
DrägerSensor XXS CO <sub>2</sub>	0 - 5 Vol.-%	0.1 Vol.-%	30 sec.*	68 10 889
DrägerSensor XXS Cl <sub>2</sub>	0 - 20 ppm	0.05 ppm	30 sec.	68 10 890
DrägerSensor XXS H <sub>2</sub>	0 - 2,000 ppm	5 ppm	10 sec.	68 12 370
DrägerSensor XXS H <sub>2</sub> HC	0 - 4 Vol.-%	0.01 Vol.-%	20 sec.	68 12 025
DrägerSensor XXS OV	0 - 200 ppm	0.5 ppm	20 sec.*	68 11 530
DrägerSensor XXS OV-A	0 - 200 ppm	1 ppm	40 sec.*	68 11 535
DrägerSensor XXS Amine	0 - 100 ppm	1 ppm	30 sec.	68 12 545
DrägerSensor XXS Odorant	0 - 40 ppm	0.5 ppm	90 sec.	68 12 535
DrägerSensor XXS COCl <sub>2</sub>	0 - 10 ppm	0.01 ppm	20 sec.*	68 12 005
DrägerSensor XXS Ozon	0 - 10 ppm	0.01 ppm	10 sec.*	68 11 540

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

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

\* Response time (t<sub>90</sub>)

### Sensors with a 5 year warranty

DrägerSensor XXS E CO	0 - 2,000 ppm	2 ppm	15 sec.	68 12 212
DrägerSensor XXS E H <sub>2</sub> S	0 - 200 ppm	1 ppm	15 sec.	68 12 213
DrägerSensor XXS E O <sub>2</sub>	0 - 25 Vol.-%	0.1 Vol.-%	10 sec.	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)	

## Ordering Information

NiMH power supply T4 high capacity	83 22 244
Alkaline power pack T3 / T4 (without alkaline batteries)	83 22 237
Alkaline batteries T4 (2 pc.) for alkaline power supply 83 22 237	83 22 240
Alkaline batteries T3 (2 pc.) for alkaline power supply 83 22 237	83 22 239
<b>Charging accessories</b>	
Charging module	83 18 639
Charging set basic consisting of one charging module and a single power supply (worldwide use)	83 20 333
Power supply with connection cable (worldwide use) for max. 20 charging modules	83 15 805
Single charger (worldwide use) for max. 5 charging modules	83 16 994
Single charger (worldwide use) for max. 2 charging modules	83 15 635
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
<b>Pump accessories</b>	
Dräger X-am® 1/2/5x00 external pump	83 19 400
Hand pump adapter	83 19 195
Confined space entry set, with an external pump and 3m hose	83 19 399
Carrying case Dräger X-am® 1/2/5x00 external pump, without content	83 19 385
<b>Calibration accessories</b>	
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
<b>Communication accessories</b>	
Dräger GasVision	83 14 034
Dräger CC-Vision	Freeware
USB DIRA with USB cable, communication adapter infrared to USB	83 17 409
<b>Cases</b>	
Leather carrying case	83 18 755
Carrying case for charging accessories, probes, external pump, hose and gas cylinder (without content)	83 20 467
<b>Area Monitoring<sup>1)</sup></b>	
Dräger X-zone® 5000 868 MHz, 12 Ah	83 20 740
Dräger X-zone® 5000 868 MHz, 24 Ah	83 20 741
Dräger X-zone® 5000 868 MHz, 12 Ah, integrated pump	83 20 742
Dräger X-zone® 5000 868 MHz, 24 Ah, integrated pump	83 20 743
<sup>1)</sup> Further versions (915 MHz, 433 MHz, 429 MHz) available on request	

## Notes

## Notes

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