

## Dräger X-am® 5000 Multi-Gas Detection

The Dräger X-am® 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 the possibility to deploy in a rental fleet.

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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 due to the high level of sensitivity of the innovative catalytic ex sensor. It not only responds quickly to explosive gases and combustible organic vapors, it is also highly resistant against sensor poisons such as silicone and hydrogen sulfide. In combination with its long-term stability, this offers an extraordinarily long sensor lifetime of over four years. This will reduce 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 operational costs.

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### Robust and watertight

The Dräger X-am® 5000 is water and dust resistant, according to IP67 standards. 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 length of up to 45 meters (147 feet) long for the Mark II pump, makes it possible to use the detector for pre-entry measurements into confined spaces such as tanks, shafts, etc. The pump starts automatically when attached to the gas detector.

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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

## Benefits

fence line. This interconnection of the area monitoring devices allow 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. The optional Save Energy Mode makes it possible to increase the operating time of the Dräger X-am® 5000 to more than 40 hours. This is done by selecting a measurement interval of either one second (the standard), 10 or 20 seconds for the CatEx sensor.

## System Components



D-12191-2010

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### DrägerSensor® XXS

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

## System Components

ST-1535-2007



### Dräger Catalytic Ex-Sensors

The Dräger Sensor Catalytic Ex-Sensors measure multiple gases at the same time—combustible gases and vapors in the air.

ST-740-2006



### Dräger Bump Test Station

The Bump Test Station is easy to use, stand-alone and flexible. In this regard, function tests of gas detection and warning devices can be carried out easily and independently of the location.

## Accessories

D-11857-2016



### Dräger X-am® 125 external pump

External pump for hose length of up to 45 meters (147 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 attached. The change between diffusion and pump operation is quick and easy without any need for additional tools or steps.

## Accessories

D-19284-2009



### Power pack & Charging set

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

ST-15011-2008



### Leather carrying case

ST-14360-2008



### Calibration cradle

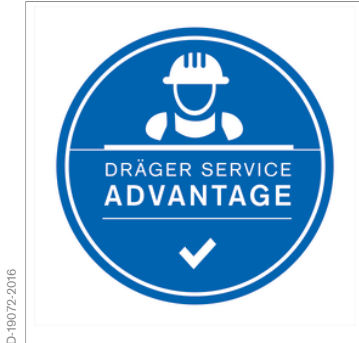
ST-50800-2005



### Calibration gases

Single gases and gas mixtures of reliable, constant quality

## 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.

## Related Products



D-43530-2015

### Dräger X-am® 2500 Personal Monitor

Dräger's X-am® 2500 accurately detects O<sub>2</sub>, CO, NO<sub>2</sub>, SO<sub>2</sub> and H<sub>2</sub>S and is the only 1-4 gas monitor you need in industrial and refinery applications. The X-am® 2500 combines reliable sensor technology with long battery life and intuitive operation in an instrument that defines safety.



ST-67-2006

### Dräger X-am® 7000

Dräger X-am® 7000 is the innovative solution for the simultaneous and continuous measurement of up to five gases. A combination of more than 25 sensors allows flexible solutions to individual monitoring tasks. It is the ideal companion in a variety of applications where the reliable detection of oxygen, toxic and combustible gases and vapors is necessary.

## Related Products

D-27784-2009



### Dräger X-am® 5600 Personal Monitor

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.

D-30746-2015



### Dräger Configuration and Evaluation Software

Tailor-made Draeger software makes saving measurement results, professionally configuring gas detection instruments, and viewing performance data possible.

## 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	IP67	
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 45 m; 147 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
	CSA	EN 50271:2010 Software and documentation
		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
	EAC	PO Ex ia I X
		0 Ex ia IIC T4 / T3 X
	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.

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

83 20 000

Description	Measuring range	Resolution	Response time (t <sub>90</sub> )	Order code
CatEx 125 PR <sup>2)</sup>	0 – 100 % LEL	1 % LEL	10 sec.	68 12 950
	0 – 100 Vol.-% CH <sub>4</sub>	1 Vol.-%	45 sec.	
CatEx 125 PR Mining	0 – 100 % LEL	1 % LEL	10 sec.	68 13 080
	0 – 100 Vol.-% CH <sub>4</sub>	1 Vol.-%	45 sec.	
DrägerSensor XXS O <sub>2</sub> <sup>2)</sup>	0 – 25 Vol.-%	0.1 Vol.-%	10 sec.	68 10 881



## Ordering Information

DrägerSensor XXS CO <sup>2)</sup>	0 – 2,000 ppm	2 ppm	25 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
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 Ozone	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>50</sub>)

## Ordering Information

### 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)	
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

### 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 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

### Pump accessories

Dräger Mark II X-am® Pump incl. USB charger with wall plug and shoulder strap	83 27 115
CSE Set for Dräger X-am® Mark II Pump	83 27 117
Customizable Expanded Dräger X-am® 5000/5600 CSE Kit with Mark II Pump	83 27 106
USB 2.0 Cable	83 27 108
USB power supply	83 27 102
Shoulder strap	83 19 386
Case for Dräger X-am® Mark II Pump	83 27 104
Filter with hose connector (3 mm / 0.12 in and 5 mm / 0.20 in)	83 19 364
Clamp	56 00 956
Telescopic Probe ES150, 1.5 m / 4.9 ft	83 16 533
Telescopic Probe, 1.4 m / 4.5 ft	45 10 546
Telescopic Probe, 2 m / 6.5 ft	45 10 545
Float probe	83 27 654
5 m / 16.4 ft FKM hose (diameter 3 mm / 0.12 in)	83 25 705
Dust/Water Stop Filter for 1/2/5 Pump	45 43 759
Kit, pump inlet w/nut, X-am® 1/2/5 Spare	45 94 854
Kit, MSHA PX2 Pump with adapter for X-am 1/2/5	45 43 982
Hand Pump Kit with 10 ft (3 m) Tygon Tubing	45 94 585
Water Trap, Dust/Mist Filter for Hand Pump Kit	45 23 078

## Ordering Information

### 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

Dräger GasVision	83 14 034
Dräger CC-Vision	Freeware
USB DIRA with USB cable, communication adapter infrared to USB	83 17 409

### Cases

Leather carrying case	83 18 755
Carrying case for charging accessories, probes, external pump, hose and gas cylinder (without content)	83 20 467

### Area Monitoring

Dräger X-zone® 5500, 915 MHz, 24 Ah	83 24 823
Dräger X-zone® 5500, 915 MHz, 24 Ah, with Pump	83 24 825

## Notes

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