Dräger X-am® 5000
Multi-Gas Detector

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_2 and harmful concentrations of toxic gases, organic vapors, Odorant and Amine.

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.

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.

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 four years. This will reduce your operational costs.

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.

ROBUST AND WATER-TIGHT

The Dräger X-am 5000 is water and dust resistant according to IP67 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.

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.

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Dräger X-am® 5000
Smallest gas detector for up to 5 gases with advanced functionality.

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 fenceline. 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.

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.

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.

Gas inlets:
At the top and the bottom for safe readings.

Visual alarm:
360° visible alarm.

Dräger sensors:
Fast, accurate and reliable.

Retroreflective label:
Easy to find in the dark or in water.

Large display:
All readings at one glance.

Dräger X-am® 5000
Robust and water-tight.

Dräger X-am® 5000
Optional external pump for clearance measurements.

ORDER INFORMATION

Dräger X-am® 5000[2]

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_{90})	Order code
CatEx 125 PR[2]	0 – 100 % LEL 0 – 100 Vol.-% CH4	1 % LEL 1 Vol.-%	10 sec. 45 sec.	68 12 950
CatEx 125 PR Mining	0 – 100 % LEL 0 – 100 Vol.-% CH4	1 % LEL 1 Vol.-%	10 sec. 45 sec.	68 13 080
DrägerSensor XXS O_2[2]	0 – 25 Vol.-%	0.1 Vol.-%	10 sec.	68 10 881
DrägerSensor XXS CO[2]	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_2 compensated	0 – 2,000 ppm CO	2 ppm	25 sec.	68 11 950
DrägerSensor XXS H_2S	0 – 200 ppm	1 ppm	15 sec.	68 10 883
DrägerSensor XXS H_2S LC[2]	0 – 100 ppm	0.1 ppm	15 sec.	68 11 525
DrägerSensor XXS H_2S HC	0 – 1,000 ppm	2 ppm	15 sec.	68 12 015

[1] Special calibration for Ex sensors are available (standard setting: Methane)

[2] Dräger provides a 3 year guarantee on the Dräger X-am® 5000 and these sensors. The legal rights arising from defects remain unaffected

ORDER INFORMATION

Description	Measuring range	Resolution	Response time (t_{90})	Order code
DrägerSensor XXS CO / H_2S	0 – 2,000 ppm CO / 0 – 200 ppm H_2S	1 ppm H_2S / 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_2	0 – 50 ppm	0.1 ppm	15 sec.	68 10 884
DrägerSensor XXS NO_2 LC	0 – 50 ppm	0.02 ppm	15 sec.	68 12 600
DrägerSensor XXS SO_2	0 – 100 ppm	0.1 ppm	15 sec.	68 10 885
DrägerSensor XXS PH_3	0 – 20 ppm	0.01 ppm	10 sec.	68 10 886
DrägerSensor XXS PH_3 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_3	0 – 300 ppm	1 ppm	10 sec.*	68 10 888
DrägerSensor XXS CO_2	0 – 5 Vol.-%	0.1 Vol.-%	30 sec.*	68 10 889
DrägerSensor XXS Cl_2	0 – 20 ppm	0.05 ppm	30 sec.	68 10 890
DrägerSensor XXS H_2	0 – 2,000 ppm	5 ppm	10 sec.	68 12 370
DrägerSensor XXS H_2 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 $COCl_2$	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
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_2S	0 – 200 ppm	1 ppm	15 sec.	68 12 213
DrägerSensor XXS E O_2	0 – 25 Vol.-%	0.1 Vol.-%	10 sec.	68 12 211

* Response time (t_{50})

Power supply units	
NiMH power pack T4	83 18 704
Power pack & charging set Consisting of: rechargeable NiMH power supply T4, charging module and a single charger (for worldwide use)	83 18 785
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 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 3 m hose	83 19 399
Carrying case Dräger X-am® 1/2/5x00 external pump, without content	83 19 385

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[1)]	
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

[1)] Further versions (915 MHz, 433 MHz, 429 MHz) available on request

TECHNICAL DATA

Dimensions (W × H × D)		48 × 130 × 44 mm; 1.89 × 5.12 × 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 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_2 EN 45544 CO & H_2S 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	
	EAC	PO Ex ia I X 0 Ex ia IIC T4 / T3 X	
	MED	Marine Equipment Directive 96 / 98 / EC	
	MSHA		