

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

The Dräger X-am 5000 belongs to a new 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 O<sub>3</sub>, Cl<sub>2</sub>, CO, CO H<sub>2</sub>-CP, CO<sub>2</sub>, H<sub>2</sub>, H<sub>2</sub>S, HCN, NH<sub>3</sub>, NO, NO<sub>2</sub>, PH<sub>3</sub>, SO<sub>2</sub>, COCl<sub>2</sub>, 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 4 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 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.

## 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.

## AREA MONITORING

In combination with the Dräger X-zone 5000 the gas detector can be used for



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

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 Dräger E-Cal automatic test and calibration station 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 either the standard alkaline or rechargeable NiMH 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.



**Dräger X-am 5000**  
Robust and water-tight



**Dräger X-am 5000**  
Optional external pump for clearance measurements

## ORDER INFORMATION

### Dräger X-am 5000

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 <sup>1)</sup>	0 - 100 % LEL 0 - 100 Vol.-% CH <sub>4</sub>	1 % LEL	10 sec.	68 12 950
CatEx 125 Mining <sup>1)</sup>	0 - 100 % LEL 0 - 100 Vol.-% CH <sub>4</sub>	1 % LEL	10 sec.	68 11 970
DrägerSensor XXS O <sub>2</sub>	0 - 25 Vol.-%	0.1 Vol.-%	10 sec.	68 10 881
DrägerSensor XXS CO	0 - 2,000 ppm	2 ppm	15 sec.	68 10 882
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	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

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

## ORDER INFORMATION

Description	Measuring range	Resolution	Response time (t <sub>90</sub> )	Order code
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 NH <sub>3</sub>	0 - 300 ppm	1 ppm	20 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
<b>Sensors with a 5 year warranty</b>				
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
* Response time (t <sub>90</sub> )				
<b>Power supply units</b>				
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).				
Alkaline power pack T3/T4 (without alkaline batteries)				83 18 703
Alkaline batteries T4 (2 pc.) for alkaline power supply 83 18 703				83 18 708
NiMH rechargeable batteries T3 for alkaline power supply unit 83 18 703, charged externally				83 19 426
<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 5000 external pump				83 19 400
Hand pump adapter				83 19 195
Confined space entry set, with an external pump and 3m Viton 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 E-Cal module for Dräger X-am 1/2/5x00				83 18 754
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
Printer set for Dräger Bump Test Station consisting of: Dräger Mobile Printer, single charger, rechargeable NiMH batteries,				83 21 011
USB connection cable, positioning aid, Dräger CC-Vision standard				
Nonane Checker for Dräger X-am 5000				83 20 080
<b>Communication accessories</b>				
Dräger GasVision				83 14 034
Dräger CC-Vision				64 08 515
USB DIRA with USB cable, communication adapter infrared to USB				83 17 409
PC communication set 1 with USB port, Dräger CC-Vision incl. registration software				83 18 761
PC communication set 2 with USB port, Dräger CC-Vision incl. registration software and barcode reader				83 18 762

**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<sup>1)</sup>**

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

**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 - 1300 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 (without Ex sensor > 700 hours) 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
		II 1G Ex ia IIC T3 (Zone 0)
		I M2 Ex d ia I
		II 2G Ex d ia IIC T4/T3
		Measurement performance certificate according 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 50271:2001 Software and Documentation
		UL
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		

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**Thank you for reading this data sheet.**

For pricing or for further information, please contact us  
at our UK Office, using the details below.

**Please note** — Product designs and specifications are subject  
to change without notice. The user is responsible for  
determining the suitability of this product.



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