

## Dräger X-am® 5600 Multi-Gas Detector

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 flammable and toxic gases and vapors as well as oxygen.



## Benefits

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### Small yet robust

Small, light and easy to use – the robust and water-tight gas detector X-am 5600 is designed for single-handed operation in tough industrial environments. Water- and dustproof according to IP 67 and with an integrated rubber boot, the device provides optimal functionality even under harsh conditions.

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### Durable infrared technology

Thanks to the high stability and a resistance to contamination, Dräger infrared sensors can generally be used for up to eight years. This advanced technology reduces the cost of ownership considerably because less replacement sensors are needed. In addition, a calibration of the IR sensor is only necessary every 12 months which reduces maintenance costs.

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### Single or dual sensor – accurate measurement results

The infrared sensor IR Ex allows the measurement of flammable hydrocarbons in the range of the lower explosive limit. The infrared sensor IR CO<sub>2</sub>, with a measurement resolution of 0.01 Vol.-%, provides safe and exact measurements as well as a warning against toxic concentrations of carbon dioxide in the ambient air. For those applications where the reliable measurement of flammable substances and CO<sub>2</sub> is specifically needed, the advantages of both can be achieved by a dual sensor (Dual IR CO<sub>2</sub>/Ex).

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### Also in combination with Hydrogen

Besides hydrocarbons, hydrogen can also be a flammable gas. Because sensors based on infrared technology do not warn against hydrogen explosion dangers, the gas detector X-am 5600 combines two sensor signals (Infrared Ex and electrochemical H<sub>2</sub> HC) for reliable hydrogen detection. The X-am 5600 provides the advantages of poison-free technology to be used in areas where, until now, only catalytic Ex sensors have been used.

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### Various monitoring possibilities

Thanks to the combination of innovative infrared technology and the latest electrochemical Dräger XXS miniature sensors, this 1-to-6 gas detector reliably detects flammable and harmful concentrations of O<sub>2</sub>, Cl<sub>2</sub>, CO, 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>, O<sub>3</sub>, Amine, Odorant, COCl<sub>2</sub> and organic vapors. With the PC software Dräger CC-Vision, the sensors can easily be exchanged, calibrated or converted to meet the needs of different applications.

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### Flexible use

An optional external pump which can be operated with hoses up to 45 m in length is the perfect solution for pre-entry measurements in tanks or pipelines. To monitor entire areas, the gas detector X-am 5600 can be used in combination with the innovative air monitor Dräger X-zone 5500.

## Benefits

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### Suitable for Ex-Zone 0

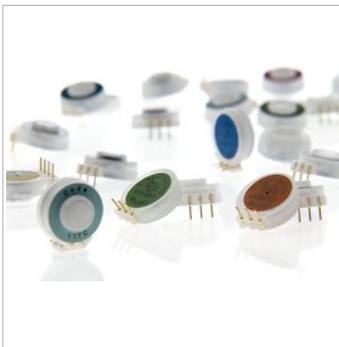
The small and reliable gas detector is suitable for use in areas classified as zone 0, which are areas where explosive atmospheres are always to be expected – also with Dräger X-am® Pump and Dräger X-zone 5500.

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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 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.

## System Components



### 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.

## System Components



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### Dräger Infrared Sensors

Dräger infrared sensors deliver optimal measurement results and are unaffected by sensor poisons. The long service life of these sensors results in hardly any follow-up costs. You can also use Dräger infrared sensors to take Ex and CO<sub>2</sub> measurements simultaneously.



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### 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.



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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

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 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.

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

NiMH supply unit T4 with charger module und power pack

## Accessories



Calibration cradle

## Related Products



**Dräger X-am® 5000**

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



**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 h		
	>250 h without Ex Sensor		
Charging time	< 4 h		
Datalogger	Can be read out via Infrared > 1,000 hours with 6 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, XXS H <sub>2</sub> HC
CE mark	Electromagnetic Compatibility (Directive 2014/30/EU)		
MED	Marine Equipment Directive (Directive 2014/90/EU)		
EAC	PO Ex ia I Ma X 0Ex ia IIC T4/T3 Ga X		

## Ordering Information

### Dräger X-am® 5600

**83 21 050**

Consisting of: basic instrument with an integrated data logger, manufacturer's and calibration certificates. A functional instrument must include up to 4 sensors and a power supply unit (option).

Infrared sensors	Measuring range	Resolution	Order code
Dual IR Ex/CO <sub>2</sub> ES <sup>1</sup>	0 – 100 % LEL	1 % LEL	68 51 880
	0 – 100 Vol.-% Methane, Propane, Ethene, n-Butane	0.1 Vol.-% CH <sub>4</sub>	
	0 – 5 Vol.-% CO <sub>2</sub>	0.01 Vol.-% CO <sub>2</sub>	
IR Ex ES <sup>1</sup>	0 – 100 % LEL	1 % LEL	68 51 881
	0 – 100 Vol.-% Methane, Propane, Ethene, n-Butane	0.1 Vol.-% CH <sub>4</sub>	
	0 – 5 Vol.-% CO <sub>2</sub>	0.01 Vol.-% CO <sub>2</sub>	
IR CO <sub>2</sub> ES	0 – 5 Vol.-% CO <sub>2</sub>	0.01 Vol.-% CO <sub>2</sub>	68 51 882
Electrochemical sensors	Measuring range	Resolution	Order code
XXS O <sub>2</sub> <sup>2</sup>	0 – 25 Vol.-%	0.1 Vol.-%	68 10 881
XXS CO LC	0 – 2,000 ppm	1 ppm	68 13 210
XXS O <sub>2</sub> 100	0 – 100 Vol.-%	0.5 Vol.-%	68 12 385

## Ordering Information

XXS O <sub>2</sub> PR	0 – 30 Vol.-%	0,1 Vol.-%	68 00 530
XXS CO HC	0 – 10,000 ppm	5 ppm	68 12 010
XXS CO/H <sub>2</sub> compensated	0 – 2,000 ppm CO	2 ppm	68 11 950
XXS H <sub>2</sub> S LC <sup>2</sup>	0 – 100 ppm	0.1 ppm	68 11 525
XXS H <sub>2</sub> S HC	0 – 1,000 ppm	2 ppm	68 12 015
XXS CO LC/H <sub>2</sub> S LC	0 – 2,000 ppm CO	1 ppm CO	68 13 280
	0 – 200 ppm H <sub>2</sub> S	0.1 ppm H <sub>2</sub> S	
XXS CO LC/O <sub>2</sub>	0 – 200 ppm CO	1 ppm CO	68 13 275
	0 – 25 Vol.-% O <sub>2</sub>	0.1 Vol.-% O <sub>2</sub>	
XXS H <sub>2</sub> S LC/O <sub>2</sub>	0 – 100 ppm H <sub>2</sub> S	0.1 ppm H <sub>2</sub> S	68 14 137
	0 – 25 Vol.-% O <sub>2</sub>	0.1 Vol.-% O <sub>2</sub>	
XXS NO	0 – 200 ppm	0.1 ppm	68 11 545
XXS NO <sub>2</sub>	0 – 50 ppm	0.1 ppm	68 10 884
XXS NO <sub>2</sub> LC	0 – 50 ppm	0.02 ppm	68 12 600
XXS SO <sub>2</sub>	0 – 100 ppm	0.1 ppm	68 10 885
XXS PH <sub>3</sub>	0 – 20 ppm	0.01 ppm	68 10 886
XXS PH <sub>3</sub> HC	0 – 2,000 ppm	1 ppm	68 12 020
XXS HCN	0 – 50 ppm	0.1 ppm	68 10 887
XXS HCN PC	0 – 50 ppm	0.5 ppm	68 13 165
XXS NH <sub>3</sub>	0 – 300 ppm	1 ppm	68 10 888
XXS CO <sub>2</sub>	0 – 5 Vol.-%	0.1 Vol.-%	68 10 889
XXS Cl <sub>2</sub>	0 – 20 ppm	0.05 ppm	68 10 890
XXS H <sub>2</sub>	0 – 2,000 ppm	5 ppm	68 12 370
XXS H <sub>2</sub> HC	0 – 4 Vol.-%	0.01 Vol.-%	68 12 025
XXS OV	0 – 200 ppm	0.5 ppm	68 11 530
XXS OV-A	0 – 200 ppm	1 ppm	68 11 535
XXS Amine	0 – 100 ppm	1 ppm	68 12 545
XXS Odorant	0 – 40 ppm	0.5 ppm	68 12 535
XXS COCl <sub>2</sub>	0 – 10 ppm	0.01 ppm	68 12 005
XXS Ozone	0 – 10 ppm	0.01 ppm	68 11 540

### Electrochemical sensors with 5 years manufacturer's warranty

XXS E CO	0 – 2,000 ppm	2 ppm	15 sec.	68 12 212
XXS E H <sub>2</sub> S	0 – 200 ppm	1 ppm	15 sec.	68 12 213
XXS E O <sub>2</sub>	0 – 25 Vol.-%	0.1 Vol.-%	10 sec.	68 12 211

ES = Energy saving

HC = High concentration

<sup>1</sup> Special calibrations possible for the Ex sensors (Standard: 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.

### Power supply units

NiMH power supply 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
Battery holder ABT 0100 (without batteries)	83 22 237
Alkaline batteries T3 (2 pcs.) for battery holder 83 22 237	83 22 239
Alkaline battery T4 (2 pcs.)	83 22 240

## Ordering Information

### 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 Adapter for power plug 83 25 736 is needed in addition.	83 21 850
Single charger (worldwide use) for max. 5 charger modules	83 16 994
Car charging connection cable 12 V / 24 V for a charging module	45 30 057
Vehicle charger mounting kit for one Dräger X-am® 1/2/5x00 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	83 18 752
Dräger X-dock® 5300 for Dräger X-am® 1/2/5x00	83 21 880
Dräger Bump Test Station for Dräger X-am® 5600, not including gas cylinder	83 19 131
Dräger Bump Test Station for Dräger X-am® 5600, complete with one test gas cylinder 58L (gas and concentration variable)	83 19 130
Nonane Checker	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

### Area monitoring

Dräger X-zone® 5500, 868 MHz, 24 Ah battery with diffusion cap	83 24 819
Dräger X-zone® 5800 with integrated pump, 868 MHz, 24 Ah battery with diffusion and pump cap	83 29 030

In conjunction with the portable alarm amplifier Dräger X-zone® 5500 the units are combined to a new system; to monitor whole working areas or to connect to external alarm contacts.

## Notes

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### CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA  
Moislinger Allee 53–55  
23558 Lübeck, Germany  
[www.draeger.com](http://www.draeger.com)

### REGION EUROPE

Dräger Safety AG & Co. KGaA  
Revalstraße 1  
23560 Lübeck, Germany  
Tel +49 451 882 0  
Fax +49 451 882 2080  
[info@draeger.com](mailto:info@draeger.com)

### REGION MIDDLE EAST, AFRICA

Dräger Safety AG & Co. KGaA  
Branch Office  
P.O. Box 505108  
Dubai, United Arab Emirates  
Tel +971 4 4294 600  
Fax +971 4 4294 699  
[contactuae@draeger.com](mailto:contactuae@draeger.com)

### REGION ASIA PACIFIC

Draeger Singapore Pte. Ltd.  
61 Science Park Road  
The Galen #04-01  
Singapore 117525  
Tel: +65 6872 9288  
Fax: +65 6259 0398  
[asia.pacific@draeger.com](mailto:asia.pacific@draeger.com)

### REGION CENTRAL AND SOUTH AMERICA

Dräger Indústria e Comércio Ltda.  
Al. Pucurui - 51 - Tamboré  
06406-100 - Barueri - SP  
Tel. +55 (11) 4689-4900  
[relacionamento@draeger.com](mailto:relacionamento@draeger.com)

Locate your Regional Sales  
Representative at:  
[www.draeger.com/contact](http://www.draeger.com/contact)

