

# Dräger X-am<sup>®</sup> 5600 Multi-Gas Detection Device

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, combustibile 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 sensor calibration 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 explosive, combustible 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 explosive 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 an explosive 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>) 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 explosive, combustible 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 30 m or 98 ft. 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 5000.

## 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.

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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. 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



ST:740-2006

### 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.

## System components



D-47907-2012

### 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.

## Accessories



D-12284-2009

### Power pack & charging set

NiMH supply unit T4 with charger module und power pack



D-12286-2009

### Power pack with connection cable (for worldwide use)

for up to 20 charger modules

## Accessories



ST-14360-2008

### Calibration cradle



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.

## Related Products



ST-9466-2007

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

## 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 × H × D)	47 × 130 × 44 mm; 1.85 × 5.12 × 1.73 inches	
Weight	250 g; 8.8 oz.	
Ambient conditions	Temperature	- 20 to + 50 °C; - 4 to + 122 °F
	Pressure	700 to 1300 mbar; 20.7 to 38.4 inch Hg
	Humidity	10 to 95 % RH
Alarms	Visual	360°
	Audible	Multi-tone > 90 dB at 30 cm; 1 ft.
	Vibration	
Ingress Protection	IP 67	
Operating time	~ 9 h or rather ~ 10.5 h	
Charging time	< 4 hours	
Data logger	Can be read out via Infrared > 1000 hours with 6 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 T4/T3 Ga
	Measurement performance certificate	EN 50104 (2002) + A1 (2004) O <sub>2</sub> EN 45544 CO, CO <sub>2</sub> and H <sub>2</sub> S EN 60079-29-1:2007 Methane, Propane, Nonane EN 50271:2001 Software and documentation
	IEC	Ex ia I Ma Ex ia IIC T4/T3 Ga for MQG 01"
	MED	Marine Equipment Directive 96/98/EC
	CSA C US	Div.1, Class I, Groups A,B,C,D T4/T3 A/Ex ia IIC T4/T3 /Ga

## Ordering Information

### Dräger X-am® 5600

83 21 050

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

Infrared-Sensors	Measuring Range	Resolution	Response time (t <sub>90</sub> )	Order code
DrägerSensor Dual IR Ex/CO <sub>2</sub> <sup>1)</sup>	0 – 100 % LEL 0 – 100 Vol.-% Methane, Propane, Ethylene	1 % LEL 0.1 Vol.-% CH <sub>4</sub>	Ex: 15 sec. CO <sub>2</sub> : 31 sec.	68 11 960
DrägerSensor IR Ex <sup>1)</sup>	0 – 5 Vol.-% CO <sub>2</sub> 0 – 100 % LEL 0 – 100 Vol.-% Methane, Propane, Ethylene	0.01 Vol.-% CO <sub>2</sub> 1 % LEL 0.1 Vol.-% CH <sub>4</sub>	15 sec.	68 12 180
DrägerSensor IR CO <sub>2</sub>	0 – 5 Vol.-% CO <sub>2</sub>	0.01 Vol.-% CO <sub>2</sub>	31 sec.	68 12 190
Electrochemical Sensors	Measuring Range	Resolution	Response time (t <sub>90</sub> )	Order Code
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	25 sec.	68 10 882
DrägerSensor XXS O <sub>2</sub> 100	0 - 100 Vol.-%	0.5 Vol.-%	5 sec.	68 12 385

## Ordering Information

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
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	0.1 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 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. (t <sub>50</sub> )	68 10 887
DrägerSensor XXS NH <sub>3</sub>	0 – 300 ppm	1 ppm	10 sec. (t <sub>50</sub> )	68 10 888
DrägerSensor XXS CO <sub>2</sub>	0 – 5 Vol.-%	0.1 Vol.-%	30 sec. (t <sub>50</sub> )	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. (t <sub>50</sub> )	68 11 530
DrägerSensor XXS OV-A	0 – 200 ppm	1 ppm	40 sec. (t <sub>50</sub> )	68 11 535
DrägerSensor XXS Amine	0 – 100 ppm	1 ppm	30 sec.	68 12 545
DrägerSensorXXS Odorant	0 – 40 ppm	0.5 ppm	90 sec.	68 12 535
DrägerSensorXXS 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. (t <sub>50</sub> )	68 11 540

### Electrochemical Sensors

#### with 5 years 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

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

### Power supply units

NiMH power supply T4	83 18 704
NiMH power supply T4 high capacity	83 22 244
Power pack & charging set consisting of: rechargeable NiMH power supply T4, charging module and a single charger (for worldwide use)	83 18 785
Power pack & charging set HC consisting of: rechargeable NiMH power supply HC T4, charging module and a single charger (for worldwide use)	83 22 785
Battery holder ABT 0100 (without batteries)	83 22 237
Alkaline batteries T3 (2 pcs.) for battery holder 83 22 237	83 22 239



## Ordering Information

Alkaline batteries T4 (2 pcs.) for battery holder 83 22 237	83 22 240
<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 charger modules	83 16 994
Single charger (worldwide use) for max. 2 charger modules	83 15 635
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
<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 3 m or 9 ft. hose	83 19 399
Carrying case Dräger X-am® 1/2/5x00 external pump (without pump)	83 19 385
<b>Calibration accessories</b>	
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
<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>System components</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 with pump	83 20 742
Dräger X-zone® 5000 – 868 MHz, 24 Ah with pump	83 20 743
In conjunction with the portable alarm amplifier Dräger X-zone® 5000 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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