Dräger X-am 5600
Multi-Gas Detector

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Featuring an ergonomic design and innovative infrared sensor technology, the Dräger X-am 5600 is a small 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.

Dräger

Technology for Life

Dräger X-am 5600

Safe gas entry
Gas entry from two sides

Visual alarm
360° visible alarm

Robust design
Water and dust resistant
in acc. with IP 67

Crocodile clip
Secure attachment

DrägerSensors
Quick, precise, long service life

Large display
All values at a glance

D-23637-2009

Dräger

X-am 5600

CO₂ Vol%	0.00
ch₄ %LEL	0.0
O₂ Vol%	20.9
SO₂ ppm	0.0
H₂S ppm	0
CO ppm	0

+M — 0 — OK on

Benefits

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.

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.

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_2, 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_2 is specifically needed, the advantages of both can be achieved by a dual sensor (Dual IR CO_2/Ex).

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_2 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.

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_2, Cl_2, CO, CO_2, H_2, H_2S, HCN, NH_3, NO, NO_2, PH_3, SO_2, O_3, Amine, Odorant, $COCl_2$ 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.

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 highly visible area monitor Dräger X-zone 5800.

Benefits
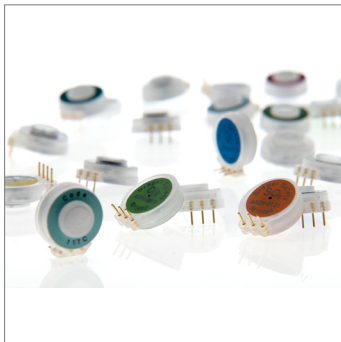
Suitable for classified environments

The small and reliable gas detector is suitable for use in areas classified as Class 1 Div 1, which are areas where explosive atmospheres are always to be expected – also with Dräger X-am Pump and Dräger X-zone 5800.

Area monitoring

In combination with the Dräger X-zone 5800 the gas detector can be used for various area monitoring applications. Up to 25 Dräger X-zone 5800 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.

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.

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_2 measurements simultaneously.

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.
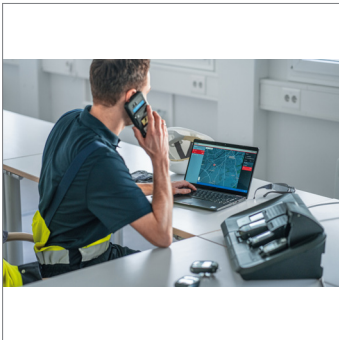

D-24997-2020

Dräger Bump Test Station

Easy function testing on site

D-40484-2021

Gas Detection Connect

Dräger Gas Detection Connect is your connection to the digital future of occupational safety. The system connects individual Dräger products through a smart software solution. Thanks to location- and time-independent access, you manage your equipment optimally and always have the position and status of your gas detection equipment and workers available. So you can protect your workforce and increase the efficiency of your plant at the same time.

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 gas 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 2500/2800 and X-am 5000/5600/5800 – 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

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

Related Products

D-14325-2017

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.

D-9538-2022

Dräger X-am 5800

The X-am 5800 multi-gas detector measures up to six gases and is equipped with a particularly shock-resistant CatEx sensor. With the Dräger Gas Detection Connect software, it offers live data transmission and powerful asset management. Designed for personal monitoring, the X-am 5800 offers you the highest level of safety at a low cost of ownership.

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 °C possible over a short period (ATEX & IECEx only), max. 15 minutes with NiMH supply unit T4 (HBT 0000) or T4 HC (HBT 0100), prerequisite: storage of the device at room temperature at room temperature (+20 °C) for at least 60 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		Application of an optimized data compression method with high accuracy and large storage capacity (typically data compression >90% compared to the traditional data logger concept with adjustable interval)
Pump operation		Maximum hose length 45 m; 148 ft.
Approvals	ATEX	II 1G Ex da ia IIC T4/T3 Ga, I M1 Ex da ia I Ma
	IECEx	Ex da ia IIC T4/T3 Ga, Ex da ia I Ma
	CSA (Canada & USA)	Class I, Div. 1, Groups A, B, C, D Class II, Div. 1, Groups E, F, G Class I, Zone 0, A/Ex da ia IIC T4/T3 Ga

	Measurement performance certificate		
		EN 50104	O_2
		EN 45544-1, EN 45544-2	CO & H_2S
		EN 60079-29-1	Methane to nonane, XXS H2 HC

	CE mark	Electromagnetic Compatibility (Directive 2014/30/EU)
	MED	Marine Equipment Directive (Directive 2014/90/EU)
	MER	Merchant Shipping (Marine Equipment) Regulations 2016
	EAC	PO Ex ia I Ma X 0Ex ia IIC T4/T3 Ga X

Ordering Information

Dräger X-am 5600 (configured)	**8321050**

Consisting of: basic instrument with an integrated data logger. 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_2ES [1]	0 – 100 % LEL	1 % LEL	6851880
	0 – 100 Vol.-% Methane, Propane, Ethene, n-Butane	0.1 Vol.-% CH_4	
	0 – 5 Vol.-% CO_2	0.01 Vol.-% CO_2	
IR Ex ES [1]	0 – 100 % LEL	1 % LEL	6851881
	0 – 100 Vol.-% Methane, Propane, Ethene, n-Butane	0.1 Vol.-% CH_4	
IR CO_2 ES	0 – 5 Vol.-% CO_2	0.01 Vol.-% CO_2	6851882

Electrochemical sensors	Measuring range	Resolution	Order code
XXS O_2 [2]	0 – 25 Vol.-%	0.1 Vol.-%	6810881
XXS CO LC	0 – 2,000 ppm	1 ppm	6813210
XXS O_2 100	0 – 100 Vol.-%	0.5 Vol.-%	6812385
XXS O_2 PR	0 – 30 Vol.-%	0.1 Vol.-%	6800530
XXS CO HC	0 – 10,000 ppm	5 ppm	6812010
XXS CO/H_2 compensated	0 – 2,000 ppm CO	2 ppm	6811950
XXS H_2S LC [2]	0 – 200 ppm	0.1 ppm	6811525
XXS H_2S HC	0 – 1,000 ppm	2 ppm	6812015
XXS CO LC/H_2S LC	0 – 2,000 ppm CO 0 – 100 ppm H_2S	1 ppm CO 0.1 ppm H_2S	6813280
XXS CO LC/O_2	0 – 2,000 ppm CO 0 – 25 Vol.-% O_2	1 ppm CO 0.1 Vol.-% O_2	6813275
XXS H_2S LC/O_2	0 – 100 ppm H_2S 0 – 25 Vol.-% O_2	0.1 ppm H_2S 0.1 Vol.-% O_2	6814137
XXS NO	0 – 200 ppm	0.1 ppm	6811545
XXS NO_2	0 – 50 ppm	0.1 ppm	6810884
XXS NO_2 LC	0 – 50 ppm	0.02 ppm	6812600
XXS SO_2	0 – 100 ppm	0.1 ppm	6810885
XXS PH_3	0 – 20 ppm	0.01 ppm	6810886
XXS PH_3 HC	0 – 2,000 ppm	1 ppm	6812020
XXS HCN	0 – 50 ppm	0.1 ppm	6810887
XXS HCN PC	0 – 50 ppm	0.5 ppm	6813165
XXS NH_3	0 – 300 ppm	1 ppm	6810888
XXS CO_2	0 – 5 Vol.-%	0.1 Vol.-%	6810889
XXS Cl_2	0 – 20 ppm	0.05 ppm	6810890
XXS H_2	0 – 2,000 ppm	5 ppm	6812370
XXS H_2 HC	0 – 4 Vol.-%	0.01 Vol.-%	6812025
XXS OV	0 – 200 ppm	0.5 ppm	6811530
XXS OV-A	0 – 200 ppm	1 ppm	6811535
XXS Amine	0 – 100 ppm	1 ppm	6812545

Ordering Information

XXS Odorant	0 – 40 ppm	0.5 ppm	6812535
XXS COCl$_2$	0 – 10 ppm	0.01ppm	6812005
XXS Ozone	0 – 10 ppm	0.01 ppm	6811540

ES = Energy saving
HC = High concentration

[1] Special calibrations possible for the Ex sensors (Standard: methane).
[2] 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 T42.0	3703887
Power pack & charging set consisting of: rechargeable NiMH power supply T42.0, charging module and a single charger (for worldwide use)	3703889

Charging accessories

Charging module	8318639
Charging set basic, consisting of one charging module and a single power supply (worldwide use)	8320333
Power plug 100–240 VAC; 6.25 A, for charging up to 20 devices Adapter for power plug 8325736 is needed in addition.	8321850
Single charger (worldwide use) for max. 5 charger modules	8316994
Car charging connection cabel 12 V / 24 V for a charging module	4530057
Vehicle charger mounting kit for one Dräger X-am 1/2/5x00 charging module	8318779
Charging adapter for charging a rechargeable battery without X-am device	8326101

Pump accessories

Dräger X-am Pump (external pump)	8327100
Dräger X-am Pump incl. USB charger and shoulder strap	8327115
Hand pump adapter	8319195
CSE Set Dräger X-am Pump (incl. 5 m FKM hose)	8327117
Case for Dräger X-am Pump	8327104

Ordering Information

Calibration accessories

Calibration cradle	8318752
Dräger X-dock 5300 for Dräger X-am 1/2/5x00	8321880
Dräger Bump Test Station for Dräger X-am 5600, not including gas cylinder	8319131

Communication accessories / software

Dräger GasVision license key	8325646 software: www.draeger.com/software (free trial version)
Dräger CC-Vision	www.draeger.com/software
USB DIRA with USB cable, communication adapter infrared to USB	8317409

Area monitoring

Dräger X-zone 5800 with integrated pump, 868 MHz, 24 Ah battery with diffusion and pump cap	8329030

In conjunction with the portable alarm amplifier Dräger X-zone 5500/5800, the devices are combined into system, e.g. to monitor entire work areas or to switch the alarm contact to external equipment.

Notes

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