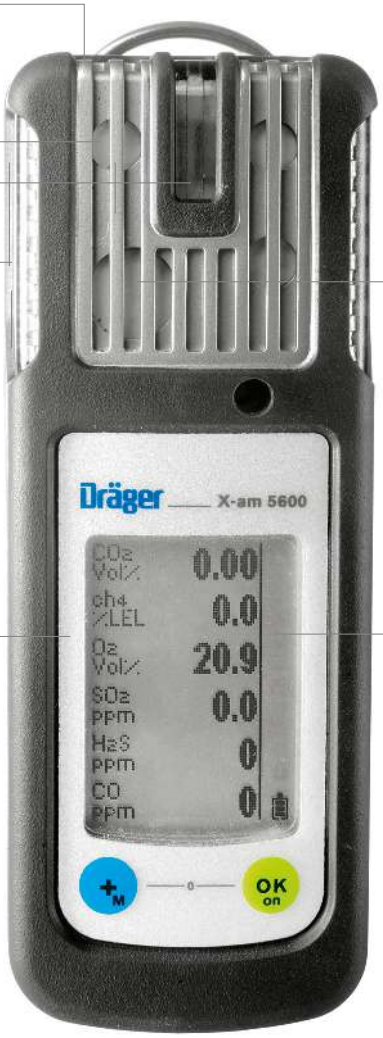
Dräger X-am® 5600
Multi-Gas Detector

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.

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

Dräger. Technology for Life®

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 innovative air monitor Dräger X-zone 5500.

Benefits

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.

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 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

D-12191-2010

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

D-0957-2020

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.

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.

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.

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

ST-14360-2008

Calibration cradle

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-6491-2017

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	IECExEx 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_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)	
	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_2 ES [1]	0 – 100 % LEL	1 % LEL	68 51 880
	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	68 51 881
	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	68 51 882
Electrochemical sensors	**Measuring range**	**Resolution**	**Order code**
XXS O_2 [2]	0 – 25 Vol.-%	0.1 Vol.-%	68 10 881
XXS CO LC	0 – 2,000 ppm	1 ppm	68 13 210
XXS O_2 100	0 – 100 Vol.-%	0.5 Vol.-%	68 12 385

Ordering Information

XXS O_2 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_2 compensated	0 – 2,000 ppm CO	2 ppm	68 11 950
XXS H_2S LC [2]	0 – 100 ppm	0.1 ppm	68 11 525
XXS H_2S HC	0 – 1,000 ppm	2 ppm	68 12 015
XXS CO LC/H_2S LC	0 – 2,000 ppm CO 0 – 200 ppm H_2S	1 ppm CO 0.1 ppm H_2S	68 13 280
XXS CO LC/O_2	0 – 200 ppm CO 0 – 25 Vol.-% O_2	1 ppm CO 0.1 Vol.-% O_2	68 13 275
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	68 14 137
XXS NO	0 – 200 ppm	0.1 ppm	68 11 545
XXS NO_2	0 – 50 ppm	0.1 ppm	68 10 884
XXS NO_2 LC	0 – 50 ppm	0.02 ppm	68 12 600
XXS SO_2	0 – 100 ppm	0.1 ppm	68 10 885
XXS PH_3	0 – 20 ppm	0.01 ppm	68 10 886
XXS PH_3 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_3	0 – 300 ppm	1 ppm	68 10 888
XXS CO_2	0 – 5 Vol.-%	0.1 Vol.-%	68 10 889
XXS Cl_2	0 – 20 ppm	0.05 ppm	68 10 890
XXS H_2	0 – 2,000 ppm	5 ppm	68 12 370
XXS H_2 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 $COCl_2$	0 – 10 ppm	0.01ppm	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_2S	0 – 200 ppm	1 ppm	15 sec.	68 12 213
XXS E O_2	0 – 25 Vol.-%	0.1 Vol.-%	10 sec.	68 12 211

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 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