



# Dräger X-am 2500 Multi-Gas Detector

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The Dräger X-am 2500 was especially developed for use as personal protection. The 1 to 4 gas detector reliably detects combustible gases and vapours, as well as O<sub>2</sub>, CO, H<sub>2</sub>S, NO<sub>2</sub> and SO<sub>2</sub>. Reliable and fully mature measuring technology, durable sensors and easy handling ensure a high degree of safety with extremely low operating costs.

# Dräger X-am 2500

**Safe gas entry**  
Gas entry from two sides

**Crocodile clip**  
Secure attachment

**Visual alarm**  
Alarm visible across 360°

**Dräger sensors**  
Quick, precise, long service life

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

**Large display**  
All values at a glance



# Benefits

## Multi-gas detector

- 1 to 4 gas detection device
- for personal air monitoring
- detection of flammable gases and vapours as well as O<sub>2</sub>, CO, NO<sub>2</sub>, SO<sub>2</sub> and H<sub>2</sub>S

## Durable electrochemical sensors

Fully developed, high performance Dräger sensors in an extra small format for CO, H<sub>2</sub>S, O<sub>2</sub>, SO<sub>2</sub> and NO<sub>2</sub> gases enable safe use in industry, mining and in refineries. The impressive hydrogen sulphide sensor has a high resolution, so it can reliably measure even very low workplace limits. The non-consumptive and lead-free sensor for oxygen is characterized by an especially long service life of more than 5 years. Dräger's CO and H<sub>2</sub>S sensors also have this long service life expectation, so they contribute to especially low operating costs.

## Poison resistant Ex sensor

The innovative, catalytic Ex sensor is impressive due to its high resistance to silicone and hydrogen sulphide. Together with the high degree of drift stability, this resistance enables an extraordinarily long service life of more than 4 years. Its sensitivity with regard to flammable gases and vapours is tested in accordance to measurement performance approval IEC/EN 60079-29-1 from methane to nonane. This approval also demonstrates the suitability of this instrument for primary explosion protection, e.g. for use in refineries and in the chemical industry.

## Maximum safety

The Dräger X-am 2500 has Ex approval for zone 0, so it is clearly designed for very high user safety in areas subject to explosion hazard. The functional design ensures that gas can enter from above and from the front.

## Maintenance: fast, easy, inexpensive

From functional test with gas to complete documentation, users have access to practical solutions that provide safety for implementation at any time. The Dräger Bump Test Station, which does not require a local power source, and the automatic Dräger X-dock testing and calibration station for comprehensive equipment management are ideal system additions that save time and effort. Together with the Dräger X-dock, the high quality Dräger sensors enable quick bump tests of 8 to 15 seconds<sup>1</sup> with very low gas consumption. This significantly reduces your equipment operating costs.<sup>1</sup>

With standard sensors: CH<sub>4</sub>, O<sub>2</sub>, CO, H<sub>2</sub>S

## Diffusion or pump mode

For clearance measurements for tanks and shafts or when searching for leaks, an optional external pump with a hose up to 45 m long is the optimum solution. The pump starts automatically when the measuring instrument is connected. The switch from diffusion to pump operation can be handled quickly and easily without tools or screws.

## Ergonomic and robust

Thanks to its low weight and ergonomic design, the Dräger X-am 2500 offers a high degree of wearing comfort. The practical two button control panel and easy menu navigation allow the instrument to be used intuitively, despite its

# Benefits

comprehensive functionality. The integrated protective rubber coating and sensors that are not sensitive to shock provide additional safety in case of impacts or vibrations. Moreover, the Dräger X-am 2500 is not sensitive to electromagnetic radiation, e.g. from wireless devices. The Dräger X-am 2500 is water and dust resistant in accordance with protection class IP 67, so it remains fully functional even if it falls accidentally into the water.

## Reliable power supply

The Dräger X-am 2500 can operate with either alkaline batteries or with rechargeable NiMH batteries. This enables a reliable power supply for more than 12 hours. Depending on the requirements, the batteries can be charged either in the workshop or in a vehicle. Operating time without Ex sensor is typically more than 250 hours.

# 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.



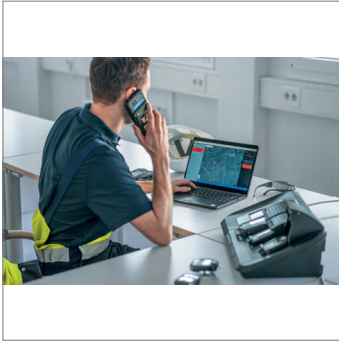
D-24997-2020

## Dräger Bump Test Station

Easy 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-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-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



## Rechargeable battery and charging technology set

NiMH supply unit T4 with charger module und power pack

# 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.

# 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.

# Related Products

D-3411-2022



## Dräger X-am 2800

The X-am 2800 multi-gas detector measures up to four 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 fleet management. Designed for personal monitoring, the X-am 2800 offers the highest level of safety at a low cost of ownership.

D-410-2018



## Dräger X-am 3500

The Dräger X-am 3500 was especially designed for clearance measurements. The 1 to 4 gas detector reliably detects flammable gases and vapours as well as O<sub>2</sub>, CO, H<sub>2</sub>S, NO<sub>2</sub> and SO<sub>2</sub>. The innovative signalling design and extensive range of accessories ensure optimum safety and easy handling.

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 00xx), prerequisite: storage of the device 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 with alkaline or NiMH, > 250 h w/o Ex sensor	
Charging time			
Datalogger		Application of an optimized data compression process with high accuracy and large storage capacity (typically data compression >90 % compared to the traditional traditional data logger concept with adjustable interval)	
With external pump		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	Ex da ia I Ma Ex da ia IIC T4/T3 Ga	
	USA / Canada	Class I Div. 1 Group A, B, C, D, E, F, 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, H <sub>2</sub>
	CE mark		Electromagnetic Compatibility (Directive 2014/30/EU) ATEX (Directive 2014/34/EU)
MED		Marine Equipment Directive (Richtlinie 2014/90/EU)	
MER		Merchant Shipping (Marine Equipment) Regulations 2016	
EAC		PO Ex da ia I Ma X OEx da ia IIC T4/T3 Ga X	



# Ordering Information

## Dräger X-am 2500

Dräger X-am 2500 Available in various versions. Calibration certificate and manufacturer's certificate are provided online. Cannot be modified later with other sensors. No power supply included.

Dräger X-am 2500 Ex, O<sub>2</sub>, H<sub>2</sub>S-LC, CO LC <sup>1,2</sup>

## Order no.

Dräger X-am 2500 (83 23 918) incl. power and charging kit (83 18 785)

Dräger X-am 2500 Flex <sup>1</sup> Choice of up to four sensors (1 slot for CatEx and 3 slots for XXS sensors). Can be modified later with other sensors. Calibration certificate and manufacturer's certificate are provided online. Power supply as an option.

83 23 918

83 23 919

83 23 900

DrägerSensors	Measuring range	Resolution	Expected service life	Order no.
CatEx 125 PR <sup>1,2</sup>	0 – 100 % LEL 0 – 5 Vol.-% CH <sub>4</sub>	1 % LEL 0.1 Vol.-%	> 4 years	68 12 950
CatEx 125 PR Gas <sup>2</sup>	0 – 100 % LEL	1 % LEL	> 3 years	68 13 080
DrägerSensor XXS O <sub>2</sub> <sup>1</sup>	0 – 25 Vol.-%	0.1 Vol.-%	> 5 years	68 10 881
DrägerSensor XXS O <sub>2</sub> PR	0 – 30 Vol.-%	0,1 Vol.-%	> 5 years	68 00 530
DrägerSensor CO LC <sup>1</sup>	0 – 2,000 ppm	1 ppm	> 5 years	68 13 210
DrägerSensor XXS H <sub>2</sub> S LC <sup>1</sup>	0 – 200 ppm	0.1 ppm	> 5 years	68 11 525
DrägerSensor NO <sub>2</sub>	0 – 50 ppm	0.1 ppm	> 3 years	68 10 884
DrägerSensor SO <sub>2</sub>	0 – 100 ppm	0.1 ppm	> 3 years	68 10 885

<sup>1</sup> Dräger provides a 3 year manufacturer's warranty on the Dräger X-am 2500 and these sensors. <sup>2</sup> Special calibration for Ex sensors are available (standard setting: Methane).

## Power supply units

NiMH power pack T4 2.0 with charging module and PSU (complete set)	37 03 889
NiMH power pack T4 2.0	37 03 887
Alkaline power pack (w/o batteries)	83 22 237
Alkaline batteries T3 (2 pcs.) for power pack 83 22 237	83 22 239
Charging adapter (for charging a rechargeable battery without X-am device)	83 26 101

## Charging accessories

Charging module	83 18 639
Charging kit consisting of a charging module and a single charger (worldwide)	83 20 333

# Ordering Information

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) for multiple charging modules (max. 5)	83 16 994
Vehicle charging cable 12 V / 24 V for charging module	45 30 057
Vehicle mounting kit for a Dräger X-am 1/2/5x00 charging module	83 18 779

## Pump accessories

Dräger X-am Pump (external pump)	83 27 100
Manual pump adapter	83 19 195
Confined Space Entry Kit with external pump and 5 m FKM hose	83 27 117
Empty case with room for X-am 1/2/5x00, charging accessories, probe, gas cylinder, pump, 3 m hose, etc.	83 27 112

## Calibration accessories

Calibration cradle for Dräger X-am 1/2/5x00	83 18 752
Dräger X-dock 5300 for Dräger X-am 1/2/5x00	83 21 880
Other versions of Dräger X-dock	on request
Dräger Bump Test Station for Dräger X-am 1/2/5x00 (w/o gas cylinder)	83 19 131
Dräger Bump Test Station for Dräger X-am 1/2/5x00, incl. gas cylinder 58L (gas and concentration can be selected)	83 19 130
Nonane tester for Dräger X-am 1/2/5x00	83 20 080

## Communication accessories / software

Dräger GasVision 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, IR communication adapter to USB	83 17 409

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