

## Dräger X-am® 2500 Multi-Gas Monitor

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, NO<sub>2</sub>, SO<sub>2</sub> and H<sub>2</sub>S. Reliable and fully mature measuring technology, durable sensors and easy handling guarantee a high degree of safety with extremely low operating costs.



### 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. Our 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 high sensitivity with regard to flammable gases and vapours is confirmed by technical approval for measuring according to IEC/EN 60079-29-1 from methane to nonane. This approval also demonstrates the suitability of this instrument for use in refineries and in the chemical industry as well.

### 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 side – even if the instrument is inside a pocket or if the front gas entry is accidentally covered.

### MAINTENANCE: FAST, EASY, INEXPENSIVE

From functional test 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



D-58025-2012

**Dräger X-am® 2500**  
Robust 1 to 4 gas detector for personal protection.

**DRÄGER X-AM® 2500**

**Safe gas entry**

Gas entry from 2 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.



**DIFFUSION OR PUMP**

For clearance measurements for tanks and shafts or when searching for leaks, an optional external pump with a hose up to 30 m long is the optimum solution. When the measuring instrument is inserted, the pump function starts automatically. The switch from diffusion to pump operation can be handled quickly and easily without tools or screws.

two button control panel and easy menu navigation allow the instrument to be used intuitively, despite its 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 full functionality is guaranteed even if it falls 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, and with the high capacity battery pack more than 13 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.

**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



D-528864-2012

**Dräger X-am® 2500**

Efficient maintenance and comprehensive equipment management with the optional Dräger X-dock testing and calibration station.



ST-9554-2007

**Dräger X-am® 2500**

Flexible with external pump for clearance measurements.



ST-1094-2008

**Dräger X-am® 2500**

Reliable personal protection, e.g. in confined space entry.

## ORDERING INFORMATION

DESIGNATION	ORDER NO.
<b>Dräger X-am® 2500</b> Available in various versions. Cannot be modified later with other sensors. Includes calibration certificate. No power supply included.	
Dräger X-am® 2500 EX <sup>1)</sup>	83 23 910
Dräger X-am® 2500 Ex, O <sub>2</sub> <sup>1)</sup>	83 23 912
Dräger X-am® 2500 Ex, O <sub>2</sub> , H <sub>2</sub> S-LC <sup>1)</sup>	83 23 914
Dräger X-am® 2500 Ex, O <sub>2</sub> , CO <sup>1)</sup>	83 23 916
Dräger X-am® 2500 Ex, O <sub>2</sub> , H <sub>2</sub> S-LC, CO <sup>1)</sup>	83 23 918
<b>Dräger X-am® 2500 Flex<sup>1)</sup></b> Available in various versions. Can be modified later with other sensors. Includes calibration certificate. No power supply included.	<b>83 23 900</b>
Dräger X-am® 2500 Ex, O <sub>2</sub> , CO, H <sub>2</sub> S-LC	
Dräger X-am® 2500 Ex, O <sub>2</sub> , CO	
Dräger X-am® 2500 Ex, O <sub>2</sub> , H <sub>2</sub> S-LC	
Dräger X-am® 2500 Ex, O <sub>2</sub>	
Dräger X-am® 2500 Ex	
Dräger X-am® 2500 O <sub>2</sub> , CO, H <sub>2</sub> S-LC	
Dräger X-am® 2500 O <sub>2</sub> , CO	
Dräger X-am® 2500 O <sub>2</sub> , H <sub>2</sub> S-LC	
Dräger X-am® 2500 Ex, O <sub>2</sub> , CO, NO <sub>2</sub>	
Dräger X-am® 2500 Ex, O <sub>2</sub> , H <sub>2</sub> S-LC, SO <sub>2</sub>	
<b>Power supply units</b>	
NiMH power pack T4 with charging module and PSU (complete set)	83 18 785
NiMH power pack T4	83 18 704
NiMH HC power pack T4 with charging module and PSU (complete set)	83 22 785
NiMH HC power pack T4	83 22 244
Alkaline power pack (w/o batteries)	83 22 237
Alkaline batteries T4 (2 pcs.) for power pack 83 22 237	83 22 240
<b>Charging accessories</b>	
Charging module	83 18 639
Charging kit consisting of a charging module and a single charger (worldwide)	83 20 333
Power pack with power cord (worldwide) for multiple charging modules (max. 20)	83 15 805
Single charger (worldwide) for multiple charging modules (max. 5)	83 16 994
Single charger (worldwide) for multiple charging modules (max. 2)	83 15 635
Vehicle charging cable 12V/24V for charging module	45 30 057
Vehicle mounting kit for a Dräger X-am 1/2/5x00 charging module	83 18 779
<b>Pump accessories</b>	
Dräger pump X-am 125, external pump	83 19 400
Manual pump adapter	83 19 195
Confined Space Entry Kit with external pump and 3 m Viton hose	83 19 399
Empty case with room for X-am® 1/2/5x00, charging accessories, probe, gas cylinder, pump, 3 m hose, etc.	83 20 467
<b>Calibration accessories</b>	
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	by 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
<b>Communication Accessories</b>	
Dräger GasVision	83 14 034
Dräger CC-Vision	Freeware
USB DIRA with USB cable, IR communication adapter to USB	83 17 409

## ORDERING INFORMATION

Dräger sensors	Measuring range	Resolution	Response time(t <sub>90</sub> )	Expected service life	Order No.
CatEx 125 PR <sup>1)</sup>	0 - 100 % LEL 0 - 5 Vol.-% CH <sub>4</sub>	1 % LEL	10 sec.	> 4 years	68 12 950
DrägerSensor XXS O <sub>2</sub> <sup>1)</sup>	0 - 25 Vol.-%	0.1 Vol.-%	10 sec.	> 5 years	68 10 881
DrägerSensor XXS CO <sup>1)</sup>	0 - 2.000 ppm	2 ppm	15 sec.	> 5 years	68 10 882
DrägerSensor XXS H <sub>2</sub> S LC <sup>1)</sup>	0 - 100 ppm	0.1 ppm	15 sec.	> 5 years	68 11 525
DrägerSensor XXS SO <sub>2</sub>	0 - 100 ppm	0.1 ppm	15 sec.	> 3 years	68 10 885
DrägerSensor XXS NO <sub>2</sub>	0 - 50 ppm	0.1 ppm	15 sec.	> 3 years	68 10 884

<sup>1)</sup> Dräger provides a 3 year guarantee on the Dräger X-am 2500 and these sensors. The legal rights arising from defects remain unaffected.

## 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
	Pressure	700 to 1300 mbar
	Relative humidity	10 to 95 % r.h.
Protection class		IP 67
Alarms	Visual	360 °
	Audible	Multi-tone > 90dB at 30cm
	Vibration	
Operating times		> 12 h with alkaline and NiMH, > 13 h with NiMH HC, > 250 h w/o Ex sensor with alkaline batteries
Charging time		< 4 h
Datalogger		Retrievable using an infrared interface > 1000 h with 4 gases at a recording interval of 1 value per minute
Approvals	ATEX	I M1 Ex ia I Ma, II 1G Ex ia IIC T3 Ga, I M2 Ex d ia I Mb, II 2G Ex d ia IIC T4/T3 Gb
		Performance approval to:
		EN 50104 (2002)+A1 (2004) O <sub>2</sub>
		EN 45544 CO & H <sub>2</sub> S
	EN 60079-29-1:2007 Methane to nonane	
	EN 50271:2001 Software and documentation	
CSA (Canada & USA)		Class I Div. 1 Group A, B, C, D T.-Code T4/T3 A/Ex ia IIC T3 /Ga A/Ex d ia IIC T4/T3 /Gb
IECEX		Ex ia I Ma Ex ia IIC T3 Ga Ex d ia I Mb Ex d ia IIC T4/T3 Gb
CE mark		Electromagnetic Compatibility (Directive 2004/108/EC); ATEX (Directive 94/9/EC)
MED		Marine Equipment Directive (Directive 96/98/EC)

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