



# Dräger X-am 3500

## Multi-Gas Detector

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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.

# Dräger X-am 3500



D-406-2018

# Benefits

## Flexible pump option for clearance measurement

The Dräger X-am 3500 is equipped with a very powerful pump. It can be connected with hoses of up to 45 metres (147 ft) in length. A pump adapter makes it easy to switch between diffusion and pump mode at any time. This means the pump is only operated when you actually need it. That saves energy, reduces wear and tear, and thereby extends the lifespan of the pump.

The performance of selected sensors has been verified by an external approval body within the scope of the measurement performance approval (EN 60079-29-1), for combustible gases and vapors for methane, propane and n-nonane, among others.

Handy and durable, the Dräger X-am 3500 is intuitive to operate single-handedly using three function keys. The easy-to-read color display clearly lays out all the information for you. Thanks to its compact and robust construction, the device can withstand even the harshest conditions.

## Clear signalling design

The signal system of the Dräger X-am 3500 is based on a clear color code:

- Red light = gas alarm
- Yellow light = device-related alarm, e.g. low battery
- Green light = device is ready for use

The green glow of the D-Light allows you to see from a distance whether the device has been properly tested and is ready for use.

In case of an alarm, the X-am 3500 alerts you with colorful alarm LEDs, a loud horn 100dB at a distance of 30 cm (12 in), and clearly palpable vibration. Optionally, four preset hazard symbols are available for the display which explicitly indicate the presence of explosive or toxic gas hazards, for example. This allows the user to easily recognise the type of hazard based purely on the symbol displayed.

## Economical Fleet Management

Bump tests and calibration are carried out simply and quickly using the Dräger X-dock calibrating station. Its low test gas consumption keeps operating costs to a minimum.

## Inductive charging protects against wear and tear

The X-am 3500 features inductive charging. This makes it easier to operate and increases the lifespan of the device. Issues like corrosion and contact problems in the charging cradle are a thing of the past. You can charge (outside of explosion-hazard zones) and measure at once, e.g. when in use inside vehicles or on machinery. The charging cradle can connect with one another, taking up minimal space, and are compatible with existing Dräger X-am series cradles.

## Comparison of Dräger X-am 3500 and Dräger X-am 8000

Features	Dräger X-am 3500	Dräger X-am 8000
Number of measuring gases	1 to 4	1 to 7
Internal pump, activation with pump adapter	Yes	Yes, optional
Inductive charging	Yes	Yes
Customer-specific settings when ordering	No	Yes
Shoulder strap included as standard	No	Yes
Catalytic bead sensor DrägerSensor CatEx I25 PR	Yes	Yes, configurable
Electrochemical (EC) DrägerSensors: XXS O <sub>2</sub> , XXS CO LC, XXS H <sub>2</sub> S LC, XXS NO <sub>2</sub> , XXS SO <sub>2</sub>	Yes	Yes, configurable
Electrochemical (EC) DrägerSensors: Other sensors/special gases	No	Yes, configurable
Infrared (IR ES) DrägerSensors Dual IR Ex/CO <sub>2</sub> (HC), IR-Ex, IR-CO <sub>2</sub>	No	Yes, configurable
IR Ex sensor: 2 gases/measurement ranges configurable	No	Yes, configurable
Photoionization detector (PID) DrägerSensors: PID HC, PID LC ppb	No	Yes, configurable
Automatic measurement range switching for the catalytic bead sensor, measuring gas: methane	No	Yes, configurable
Assistant: Confined Space, Leak Search, Sensor Selection, Benzene/Pre-Tube	No	Yes, only when a pump is installed
Toxic twins: CO and HCN signal processing	No	Yes

Dräger offers two different multi-gas detection devices with internal pump: Dräger X-am 8000 and Dräger X-am 3500. The different features of both devices are summarised in the table above.

## Accessories



### Inductive charger

To charge the device inductively

# Accessories

D-6545-2017



## Pedestal

To stand the device upright for area monitoring. The pedestal can be used with or without a shoulder strap.

D-6547-2017



## Shoulder Strap with adhesive label for X-am

With the shoulder strap you can comfortably carry the device. The corresponding adhesive label can be marked individually with device specific information, e.g. sensor assortment.

# Services

D-2331-2016



## Product service

Our product service department is here to support you with a range of service packages – in our shops or on site at your facility. Care, servicing and maintenance are key factors when it comes to safety. Diligent maintenance and care are also absolutely necessary from an economic perspective. Preventive checks, service procedures and original replacement parts ensure your investment lasts longer.

D-2330-2016



## Rental service

Whether you need to cover a temporary shortage or require specialised equipment for demanding conditions, for short-term needs, Dräger Rental Service provides a cost-effective solution with over 65,000 devices available. It's quick, simple and comes with a wide range of additional services upon request.

D-2335-2016



## Training

The Dräger Academy has been sharing its solid, practical knowledge for over 40 years. We hold more than 2,400 training courses each year on a range of over 600 topics, with more than 110 authorised trainers. We equip your staff with practical knowledge and ensure that what they learn can be applied effectively, both day-to-day and, more importantly, whenever critical situations occur. We are happy to develop a customised training programme for you.

D-2332-2016



## On-site safety services

Whether through a rental shop, personnel services or comprehensive safety management, our on-site safety services support projects with increased safety risks, as well as everyday operations.

# Technical Data

Dimensions (H x W x D)	7.0 x 3.0 x 1.7 in (179 x 77 x 42 mm)
Weight	Approx. 495 g (17.5 ounces), depending on sensor configuration, without strap, without pump Approx. 550 g (19.4 ounces), depending on sensor configuration, without strap, with pump
Housing	Durable two-component housing
Display	High-contrast color display
Temperature	-4°F to 122°F (-20 °C to +50 °C)
Pressure	700 to 1,300 hPa (measuring function) 800 to 1,100 hPa (use in explosion-hazard areas)
Relative humidity	10 to 90 % (short-term up to 95 %) r.h.
Alarms	Visual 3 LED 'red' (gas alarms), 3 LED 'yellow' (device alarms)
	Acoustic Multi-tone, typically 100dB at 30 cm (12 in)
	Vibration
Ingress protection class	IP 68
Energy supply	Lithium-ion battery, rechargeable, inductive charging
Operating times (Diffusion)	With CatEx and 3 EC sensors Typically 24 hours
	With 3 EC-sensors Typically 120 hours
Charging times	Typically 4 hours after use during a shift of max.10 hours
Start-up times	Typically <60 seconds for standard sensors
Data storage	24 MB, e.g. at 10 minutes per hour of gas exposure with measuring values changing by the second on all 4 channels: approx. 600 hours
Pump operation	Max. hose length 147.6 feet (45 m)

# Technical Data

Approvals	Marking Explosion Protection:
	ATEX / IECEx
	I M1, II 1G
	Ex da ia I Ma, Ex da ia IIC T4 Ga
	EAC
	PO Ex da ia I Ma X
	0Ex da ia IIC T4 Ga X
	cCSAus
	Class I, Zone 0, AEx da ia IIC T4 Ga
	Class II, Div 1, Gr. E, F, G
	C22.2 No. 152, ANSI-ISA 12.13.01:2000
	ANZEx
	Ex da ia I Ma, Ex da ia IIC T4 Ga
	Measurement Performance:
	Explosion protection according ATEX: EN 60079-29-1 (CatEx 125 PR, CatEx 125 PR Gas) CatEx 125 PR: methane, propane, n-nonane, etc. The following applies to the CatEx 125 PR and approved gas "n-nonane": Only in conjunction with pump adapter "Nonan", part number: 3720225
	Oxygen deficiency/excess oxygen: EN 50104 (XXS O <sub>2</sub> )
	Toxic gases: EN 45544-1, EN 45544-2, EN 45544-3 (XXS H <sub>2</sub> S LC, XXS CO LC)
	Software: EN 50271
	Directives
	2014/34/EU (ATEX)
	2011/65/EU (RoHS)
	2014/90/EU (MED)
	CE conform
	Marine Approval
	DNV GL
Manufacturer's warranty	3 years for the device
	1 year for the power supply
	Sensors: see DrägerSensor & Portable Instruments Handbook

# Ordering Information

## Dräger X-am 3500

consists of: device with power supply (Lithium-ion battery), integrated pump, pump adapter, data logger.

Ex = CatEx 125 PR, Calibration gas = Methane.

Instruction for use included as standard in the following languages: DE, EN, FR, ES, PT, IT, NL, RU, ZH, JA

	<b>Order No.</b>
Dräger X-am 3500 Ex, O <sub>2</sub> <sup>1</sup> (without charging equipment)	83 28 412
Dräger X-am 3500 Ex, O <sub>2</sub> , H <sub>2</sub> S LC <sup>1</sup> (without charging equipment)	83 28 414
Dräger X-am 3500 Ex, O <sub>2</sub> , CO LC <sup>1</sup> (without charging equipment)	83 28 416
Dräger X-am 3500 Ex, O <sub>2</sub> , CO LC, H <sub>2</sub> S LC <sup>1</sup> (without charging equipment)	83 28 418
<b>Dräger X-am 3500 Ex, O<sub>2</sub>, CO LC, H<sub>2</sub>S LC<sup>1</sup> Set (with charging equipment)</b>	<b>83 28 419</b>
Dräger X-am 3500 Ex, O <sub>2</sub> , CO LC <sup>1</sup> , NO <sub>2</sub> (without charging equipment)	83 28 422
Dräger X-am 3500 Ex, O <sub>2</sub> , H <sub>2</sub> S LC <sup>1</sup> , SO <sub>2</sub> (without charging equipment)	83 28 424
Instruction for use on request, also available in the following languages (please indicate language when ordering): DA, FI, NO, SV, PL, HR, SL, SK, CS, BG, RO, HU, EL, TR, KO	90 33 668
Instructions for use on request, also available online in the following languages: LT, LV, ET	Available as download on the product website
Technical handbook available in the following languages: DE, EN, FR, ES, RU	Available as download on the product website

<b>Sensors</b>	<b>Measuring Range</b>	<b>Resolution</b>	<b>Order No.</b>
CatEx 125 PR <sup>1</sup>	0–100 % LEL	1 % LEL	68 12 950
DrägerSensor XXS O <sub>2</sub> <sup>1</sup>	0–25 vol%	0.1 vol%	68 10 881
DrägerSensor XXS CO LC <sup>1</sup>	0–2,000 ppm	1 ppm	68 13 210
DrägerSensor XXS H <sub>2</sub> S LC <sup>1</sup>	0–200 ppm	0.1 ppm	68 11 525
DrägerSensor XXS NO <sub>2</sub>	0–50 ppm	0.1 ppm	68 10 884
DrägerSensor XXS SO <sub>2</sub>	0–100 ppm	0.1 ppm	68 10 885

<sup>1</sup> A three-year manufacturer's warranty applies to these sensors. Legal rights accruing from defects remain unaffected.

## Power supply unit

Energy supply (incl. back housing)	included as standard	83 26 817
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# Ordering Information

## Charging accessories

Inductive charger for charging 1 device		83 25 825
Adapter for power plug		83 25 736
Power plug for charging 1 device		83 16 997
Power plug 100–240 VAC; 1.33 A, for charging up to 5 devices	requires adapter (83 25 736)	83 21 849
Power plug 100–240 VAC; 6.25 A, for charging up to 20 devices	requires adapter (83 25 736)	83 21 850
Vehicle connector cable 12/24 V for charging 1 device		45 30 057
Vehicle connector cable 12/24 V DC for charging up to 5 devices	requires adapter (83 25 736)	83 21 855
Vehicle mount	requires adapter for power plug (83 25 736) and vehicle connector cable 12/24 V DC (83 21 855)	83 27 636
Kit vehicle charger	with power supply (83 21 855), adapter (83 25 736) and mounting kit (83 27 636) – w/o inductive power unit	83 28 283

## Pump accessories

Dust and water filter for pump inlet	included in device when pump option is selected	83 19 364
Dust and water filter for pump inlet (set of 20)		37 05 997
Pump adapter	included in device when pump option is selected	83 26 820
Pump adapter "Nonane"	Required if the measurement performance approval according to EN 60079-29-1 is required for the CatEx for measurement gas "Nonane".	37 20 225

# Ordering Information

## Probes and hoses

Telescopic probe 150, stainless steel	connection for filter is included in order no. 83 19 364 (dust/water filter)	83 16 533
GP600 probe (plastic), with adapter	connection for filter is included in order no. 83 19 364 (dust/water filter)	83 28 667
5 m FKM hose, 3.2 mm, with adapters		83 25 705
10 m FKM hose, 3.2 mm, with adapters		83 25 706
20 m FKM hose, 3.2 mm, with adapters		83 25 707
45 m FKM hose, 3.2 mm, with adapters		83 28 212
Float probe EPP, incl. 3 m hose, 3.2 mm		83 25 831
Float probe EPP, incl. 10 m hose, 3.2 mm		83 25 832
Float probe (transparent), with adapter		83 27 654

Additional probes, hoses and accessories are available. Please contact us.

## Calibration accessories

Dräger X-am 3500/8000 calibration adapter	replaced by 37 20 224	83 26 821
Dräger X-am 3500/8000 calibration adapter 2.0		37 20 224
Dräger X-dock Module Dräger X-am 8000	can also be used with X-am 3500	83 21 893
Dräger X-dock Module Dräger X-am 8000+ charging	can also be used with X-am 3500	83 21 894
Dräger X-dock 5300 (Dräger X-am 8000) with master	can also be used with X-am 3500	83 21 882
Further versions and accessories for the automatic test station Dräger X-dock		Please contact Dräger
Test gases		Please contact Dräger

## Accessories for measured value acquisition and configuration

Dräger CC-Vision	Freeware ( <a href="http://www.draeger.com/software">www.draeger.com/software</a> )
Dräger GasVision License Key	83 25 646
USB Dira Dongle / IR interface	83 17 409
Holder for USB Dira Dongle	83 25 859

# Ordering Information

## Other accessories

Protective rubber boot, removable	83 25 858
Leather case for the device	83 27 664
Transport case (empty)	83 27 661
Protective Display cover (set of three)	83 26 828
Shoulder strap (complete)	83 26 823
Retractable lanyard	83 23 032
Holder for label (on strap)	83 26 824
Adhesive label for individual inscriptions, for holder on strap, silver (set of 5)	83 27 645
Adhesive label, blue (set of 5)	83 27 646
Adhesive label, red (set of 5)	83 27 647
Adhesive label, green (set of 5)	83 27 648
Adhesive label, yellow (set of 5)	83 27 649
Pedestal for holding device upright, e.g. for area monitoring	83 25 874

# Notes

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