

# Dräger X-am<sup>®</sup> 3500 Multi-Gas Detector

The Dräger X-am<sup>®</sup> 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.

Switch easily between pump and diffusion mode

Slots for DrägerSensors<sup>®</sup> to measure up to four gases

Measurement performance approval by external approval body (Europe):  
Flammable gases and vapours: methane, propane, n-nonane, oxygen as well as selected toxic gases



Glowing green D-Light (optional) indicates: tested and ready for use

Easy-to-read colour display with zoom function

Inductive charging

## Benefits

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### **Specially designed for use with a pump, optimised 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 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 vapours 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 colour display clearly lays out all the information for you. Thanks to its compact and robust construction, the device can withstand even the harshest conditions.

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### **Clear signalling design**

The signal system of the Dräger X-am 3500 is based on a clear colour code, in accordance with the requirements of the EN 60079-29-1, EN 45544-1 and EN 50104:

- 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 colourful alarm LEDs, a loud horn (100 dB(A) at a distance of 30 cm), 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.

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### **Economical Fleet Management**

Bump test 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.

Its reporting function and numerous other useful features make the X-dock Manager PC software a smart addition to any fleet management operation. To identify the devices in the fleet, you can either use tried and tested barcodes or an integrated RFID transponder.

## Benefits

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### 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.

## Details



D-14324-2017

Pump adapter



D-6555-2017

Protective rubber boot



D-27812-2017

Dräger X-dock® module

## 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 125 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
Photoionisation 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
Bluetooth® <sup>1</sup>	No	Option

<sup>1</sup>Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

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



D-65692-2017

### Inductive charger

To charge the device inductively

## Accessories



### Pedestal

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



### Protective rubber boot

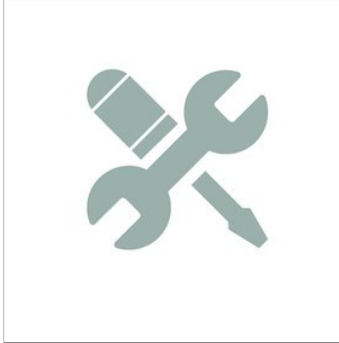
Prevents damage and wear in harsh environments. The protective boot can easily be replaced by the user.



### Shoulder strap with adhesive label

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.

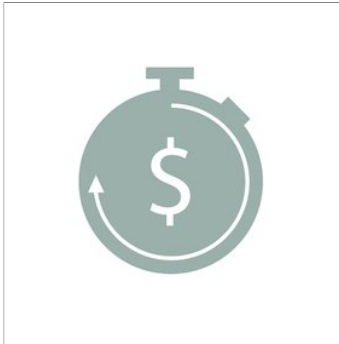
## Services



D-2331-2016

### Product Service

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



D-2330-2016

### Rental Service

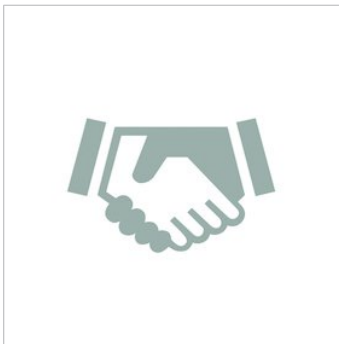
From bridging a temporary shortage of equipment to procuring special equipment for applications involving specific requirements: If you only need to cover a temporary higher demand, then DrägerRental Service with over 65,000 pieces of rental equipment is an economical alternative to purchasing. Fast, straightforward and with a wide range of additional services available upon request.



D-2335-2016

### Training

The Dräger Academy has imparted well-founded and practical knowledge for over 40 years. With over 110 authorized trainers and more than 600 available topics, we conduct more than 2,400 training sessions per year. We equip your employees with the knowledge required for real-life situations and ensure that the learned material can be recalled and applied reliably – in their everyday work and especially in stressful situations. To meet your needs, we are also happy to develop a customized training program specifically for you.



D-2332-2016

### On-site Safety Service

Whether through a rental shop, personnel services or comprehensive safety management, our On-Site Safety Services provide support in all projects where there are particular safety risks – not to mention normal day-to-day business.

## Technical Data

Dimensions (H x W x D)	179 x 77 x 42 mm	
Weight	Approx. 495 g, depending on sensor configuration, without strap, without pump Approx. 550 g, depending on sensor configuration, without strap, with pump	
Housing	Durable two-component housing	
Display	High-contrast colour display	
Temperature	- 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 100 dB(A) at 30 cm
	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 45 m	
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) 2014/30/EU (EMV) 2011/65/EU (RoHS) 2014/90/EU (MED)
	Marine Approval	DNV GL
Manufacturer's warranty	3 years for the device	

## Technical Data

1 year for the power supply

Sensors: see DrägerSensor® & Portable Instruments Handbook

## Ordering Information

Dräger X-am® 3500	Order No.
consists of: device with power supply (Lithium-ion battery), integrated pump, pump adapter, data logger, manufacturer's certificate, certificate of calibration.	
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	
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
Dräger X-am® 3500 Ex, O <sub>2</sub> , CO LC, H <sub>2</sub> S LC <sup>1</sup> Set (with charging equipment)	83 28 419
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

Sensors	Measuring Range	Resolution	Order No.
CatEx 125 PR <sup>1</sup>	0–100 % UEG	1 % UEG	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>	0–100 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		Order No.
Energy supply (incl. back housing)	included as standard	83 26 817
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



## Ordering Information

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
<b>Pump accessories</b>		
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
<b>Probes and hoses</b>		
Telescopic probe 100	connection for filter is included in order no. 83 19 364 (dust/water filter)	83 16 530
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.		
<b>Calibration accessories</b>		
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

## Ordering Information

Further versions and accessories for the automatic test station Dräger X-dock®

Nonane tester

Test gases

Please contact Dräger

83 25 861

Please contact Dräger.

### Accessories for measured value acquisition and configuration

Dräger CC-Vision

Dräger GasVision License Key

USB Dira Dongle / IR interface

Holder for USB Dira Dongle

Freeware ([www.draeger.com/software](http://www.draeger.com/software))

83 25 646

83 17 409

83 25 859

### Other accessories

Protective rubber boot, removable

Leather case for the device

Transport case (empty)

Protective Display cover (set of three)

Shoulder strap (complete)

requires bow for shoulder strap  
(83 26 819)

83 25 858

83 27 664

83 27 661

83 26 828

83 26 823

Retractable lanyard

Holder for label (on strap)

Adhesive label for individual inscriptions,  
for holder on strap, silver (set of 5)

Adhesive label, blue (set of 5)

Adhesive label, red (set of 5)

Adhesive label, green (set of 5)

Adhesive label, yellow (set of 5)

Pedestal for holding device upright, e.g.  
for area monitoring

requires connector for shoulder strap

83 23 032

83 26 824

83 27 645

83 27 646

83 27 647

83 27 648

83 27 649

83 25 874

Transponder reader for reading the

integrated RFID transponder (optional)

65 59 283

## Notes

## Notes

Not all products, features, or services are for sale in all countries.  
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