Dräger X-am® 3500
Multi-Gas Detector

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_2, CO, H_2S, NO_2 and SO_2. 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® 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

D-406-2018

Benefits

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.

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.

Economical Fleet Management

Bumptest 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 Dräger Gas Detection Connect 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

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

Pump adapter

Protective rubber boot

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_2, XXS CO LC, XXS H_2S LC, XXS NO_2, XXS SO_2	Yes	Yes, configurable
Electrochemical (EC) DrägerSensors®: other sensors/special gases	No	Yes, configurable
Infrared (IR ES) DrägerSensors® Dual IR Ex/CO_2 (HC), IR-Ex, IR-CO_2	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

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-6555-2017

Protective rubber boot

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

D-6547-2017

Shoulder strap with adhesive label

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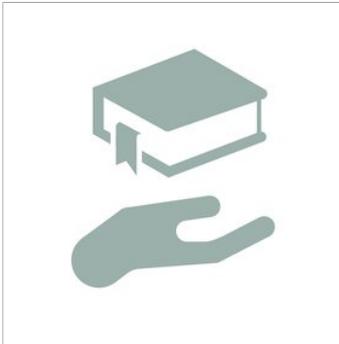
Services

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-2331-2016

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 Dräger Rental Service is a cost-effective alternative to purchasing, with over 65,000 pieces of rental equipment. Fast, straightforward and with a wide range of additional services available upon request.

D-2330-2016

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-2335-2016

On-Site Safety Services

Our On-Site Safety Services support you in your day-to-day operations and in any project that is prone to specific safety risks. Benefit from our rental shop, personnel services or even full-service safety management.

D-2332-2016

Technical Data

Dimensions (H x W x D)	179 x 77 x 42 mm	
Weight	Approx. 550 g, depending on sensor configuration, without strap, with pump	
Housing	Durable two-component housing	
Display	High-contrast colour display	
Temperature	- 20 ℃ to + 50 ℃	
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 deficieny/excess oxygen: EN 50104 (XXS O_2)
		Toxic gases: EN 45544-1, EN 45544-2, EN 45544-3 (XXS H_2S 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	
	1 year for the power supply	

Technical Data

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. 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_2 [1] (without charging equipment)	83 28 412
Dräger X-am® 3500 Ex, O_2, H_2S LC[1] (without charging equipment)	83 28 414
Dräger X-am® 3500 Ex, O_2, CO LC[1] (without charging equipment)	83 28 416
Dräger X-am® 3500 Ex, O_2, CO LC, H_2S LC[1] (without charging equipment)	83 28 418
Dräger X-am® 3500 Ex, O_2, CO LC, H_2S LC[1] Set (with charging equipment)	83 28 419
Dräger X-am® 3500 Ex, O_2, CO LC[1], NO_2 (without charging equipment)	83 28 422
Dräger X-am® 3500 Ex, O_2, H_2S LC[1], SO_2 (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[1]	0–100 % UEG	1 % UEG	68 12 950
DrägerSensor® XXS O_2 [1]	0–25 vol %	0.1 vol %	68 10 881
DrägerSensor® XXS CO LC[1]	0–2,000 ppm	1 ppm	68 13 210
DrägerSensor® XXS H_2S LC[1]	0–200 ppm	0.1 ppm	68 11 525
DrägerSensor® XXS NO_2	0–50 ppm	0.1 ppm	68 10 884
DrägerSensor® XXS SO_2	0–100 ppm	0.1 ppm	68 10 885

[1] 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

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

Ordering Information

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
Probes and hoses		
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.		
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
Nonane tester		83 25 861

Ordering Information

Test gases		Please contact Dräger.
Accessories for measured value acquisition and configuration		
Dräger CC-Vision		Freeware (www.draeger.com/software)
Dräger GasVision License Key		83 25 646
USB Dira Dongle / IR interface		83 17 409
Holder for USB Dira Dongle		83 25 859
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)	requires bow for shoulder strap (83 26 819)	83 26 823
Retractable lenyard	requires connector for shoulder strap	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	requires connector for shoulder strap	83 25 874
Transponder reader for reading the integrated RFID transponder (optional)		65 59 283

Not all products, features, or services are for sale in all countries.
Mentioned Trademarks are only registered in certain countries and not necessarily in the country in which this material is released. Go to www.draeger.com/trademarks to find the current status.

CORPORATE HEADQUARTERS
Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
www.draeger.com

REGION EUROPE
Dräger Safety AG & Co. KGaA
Revalstraße 1
23560 Lübeck, Germany
Tel +49 451 882 0
Fax +49 451 882 2080
info@draeger.com

REGION MIDDLE EAST, AFRICA
Dräger Safety AG & Co. KGaA
Branch Office
P.O. Box 505108
Dubai, United Arab Emirates
Tel +971 4 4294 600
Fax +971 4 4294 699
contactuae@draeger.com

REGION ASIA PACIFIC
Draeger Singapore Pte. Ltd.
61 Science Park Road
The Galen #04-01
Singapore 117525
Tel: +65 6872 9288
Fax: +65 6259 0398
asia.pacific@draeger.com

**REGION CENTRAL
AND SOUTH AMERICA**
Dräger Indústria e Comércio Ltda.
Al. Pucurui - 51 - Tamboré
06406-100 - Barueri - SP
Tel. +55 (11) 4689-4900
relacionamento@draeger.com

**Locate your Regional Sales
Representative at:
www.draeger.com/contact**