Dräger X-am® 3500
Multi-Gas Detector

The Dräger X-am® 3500 was especially designed for clearance measurements and personnel monitoring applications. The 1 to 4 gas detector reliably detects flammable gases and vapors as well as O_2, CO, H_2S, NO_2 and SO_2. The innovative signaling 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

Glowing green D-light indicates that the unit is tested and ready for use

Easy-to-read color display with zoom function

Inductive charging for reduced maintenance

D-406-2018

Benefits

Specially designed for use with a pump, optimized for clearance measurement

The Dräger X-am 3500 is equipped with a very powerful pump. It can be connected with hoses up to 147 ft (45 meters) long. 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.

Handy and durable, the Dräger X-am 3500 is intuitive to operate with one-handed operation 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 signaling design

The signal system of the Dräger X-am 3500 is based on a clear color code, in accordance with the requirements of 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 colorful alarm LEDs, a loud horn (100 dB(A) at a distance of 1 foot / 30 cm), and clearly noticeable vibration. Four preset hazard symbols are available as an option for the display which explicitly indicate the presence of explosive or toxic gas hazards, for example. This allows the user to easily recognize the type of hazard based purely on the symbol displayed.

Economical Fleet Management

Bumptests and calibrations are carried out simply and quickly using the Dräger X-dock® calibration 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 barcodes or an integrated RFID transponder.

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 simultaneously, e.g, when in use inside vehicles or on machinery. The charging cradles 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_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) DrägerSensors® Dual IR Ex/CO_2, IR-Ex, IR-CO_2	No	Yes, configurable
Photoionization detector (PID) DrägerSensors®: PID HC, PID LC ppb	No	Yes, configurable
Automatic measurement range switching for the catalytic bead sensor, catalytic bead sensor, measuring gas: methane	No	Yes, configurable
Assistants: Confined Space, Leak Search, Benzene/Pre-Tube	No	Yes, only when a pump is installed
Event report (incl. impact detection)	Yes	Yes, configurable
Bluetooth®[1]	No	Option
[1]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 summarized in the table above.

Accessories

D-6562-2017

Inductive charger

Inductive charging reduces maintenance because there are no metal contacts required for charging.

D-6545-2017

Pedestal

Use 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 detector specific information, e.g. sensor assortment.

Services

D-19072-2016

Dräger Service

When your operation's safety equipment is backed by over 125 years of experience and supported by the same team that engineered it, you can rely on service and rental solutions that are tailored to meet your unique needs. With Dräger's safety solutions, you get complete peace of mind, budget security, and full-service support that you can count on every step of the way. That's the Dräger Service Advantage.

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	
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 67	
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	12 MB, e.g. at 10 minutes per hour of gas exposure with measuring values changing by the second on all 4 channels: approx. 300 hours	
Pump operation	Max. hose length 147.6 feet (45 m)	
Approvals	ATEX / IECEx	I M1, II 1G
		Ex da ia I Ma, Ex da ia IIC T4 Ga
		Metrological approval pending
	cCSAus	Class II, Div 1, Gr. E, F, G T4
		C22.2 No. 152, ANSI-ISA 12.13.01:2000
	CE labelling	
	MED / DNV GL (Please contact Dräger regarding availability.)	
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	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, O2 [1] (without charging equipment)	83 28 412
Dräger X-am® 3500 Ex, O2, H2S LC[1] (without charging equipment)	83 28 414
Dräger X-am® 3500 Ex, O2, CO LC[1] (without charging equipment)	83 28 416
Dräger X-am® 3500 Ex, O2, CO LC, H2S LC[1] (without charging equipment)	83 28 418

Ordering Information

Dräger X-am® 3500 Ex, O$_2$, CO LC, H$_2$S 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$_2$S LC[1], SO$_2$ (without charging equipment)	83 28 424
Instruction for use on request, also available in the following languages (please indicate when ordering): DA, FI, NO, SV, PL, HR, SL, SK, CS, BG, RO, HU, EL, TR, KO	90 33 668
Technical handbook available in the following languages: DE, EN, FR, ES, RU	Available to download from the product website.

Sensors	Measuring Range	Resolution	Order No.
CatEx 125 PR[1]	0–100 % LEL	1 % LEL	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$_2$S LC[1]	0–100 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 for charging 5 devices		83 16 994
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; 1.33 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

Pump accessories		
Dust and water filter for pump inlet	83 19 364
Pump adapter	83 26 820

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
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

Ordering Information

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 from Dräger. Please contact us.		

Calibration accessories

Dräger X-am® 3500/8000 calibration adapter	83 26 821
Dräger X-dock® Module Dräger X-am® 3500/ 8000	83 21 893
Dräger X-dock® Module Dräger X-am® 3500/8000+ charging	83 21 894
Dräger X-dock® 5300 (Dräger X-am® 3500/8000) with Master	83 21 882
Nonane Tester	83 25 861
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 connector for shoulder strap – 83 26 819)	83 26 823
Retractable lanyard	(requires connector for shoulder strap)	83 23 032
Holder for labels (on strap)		83 26 824
Adhesive labels for individual inscriptions, for holder on strap, silver (set of 5)		83 27 645
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

Notes

Notes

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

Customer Service:
USA
+1 800-4DRAGER
(+1 800-437-2437)

CANADA
+1 877-DRAGER1
(+1 877-372-4371)

Technical Service:
USA
+1 800-4DRAGER
(+1 800-437-2437)

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