

Dräger X-am® 3500 Multi-Gas Detector

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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 O₂, CO, H₂S, NO₂ and SO₂. 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-61555-2017

Protective rubber boot



D-27892-2017

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 ₂ S 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-65692-2017

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.

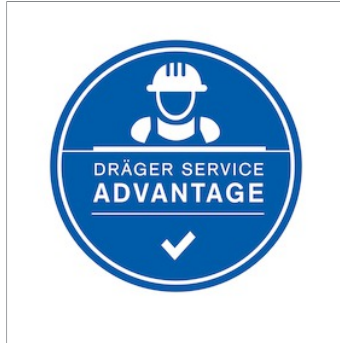


D-6547-2017

Shoulder strap with adhesive label

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

Services



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, O ₂ 1 (without charging equipment) | 83 28 412 |
| Dräger X-am® 3500 Ex, O ₂ , H ₂ S 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 ₂ S 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

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|------------------------------------|------------------------|-----------|
| Energy supply (incl. back housing) | (included as standard) | 83 26 817 |
|------------------------------------|------------------------|-----------|

Charging accessories

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|---|--|-----------|
| 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

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

Probes and Hoses

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|---------------------------------------|---|-----------|
| 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

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|--|-----------|
| 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

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.

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