# Dräger X-am® 2800
# Multi-Gas Detector

The X-am 2800 multi-gas detector measures up to four gases and is equipped with a shock-resistant CatEx SR sensor. With the Dräger Gas Detection Connect software, it offers live monitoring and powerful fleet management. Designed for personal monitoring, the X-am 2800 offers the highest level of safety at a low cost of ownership.

Green illuminated D-light (optional) that signals when the unit is tested and ready for use

CatEx SR (Shock Resistant), measuring flammable gases and vapors, with high shock load resistance

Label area for optional color marking

Easy-to-read display provides the most important information at-a-glance

Dräger Gas Detection Connect support means easy fleet management with the Drager X-dock and data transmission with Bluetooth

Back features a robust clip with D-ring that securely fastens to clothing in the the breathing zone

Intuitive visual alarm displays flashing red for gas alarm and yellow for instrument errors

DragerSensors in XXS format (electrochemical sensors) measure $O_2$, CO and $H_2S$, with a 5-year warranty

Robust design carries an IP68 rating, withstands water and dust, and drop test rating is > 6 ft / 2 m Meets NFPA 1801 Tumble Test requirements.

Large buttons for ease of use while wearing gloves

D-7284-2021

## Benefits

### Powerful data analysis in the cloud

Networking capability provides safety and efficiency: Transfer your recorded data directly and conveniently via Bluetooth to a smartphone and the Gas Detection Connect software. As an alternative, you can also transfer the data directly to the cloud with the X-dock test station, providing secure access to your data and its analysis anytime and anywhere with access to the internet.

### Comfortable Fleet Management

Manage your fleet of equipment comfortably and efficiently with the X-am 2800. Save operating costs and time with fast tests, using the automatic test station X-dock, with low gas consumption or mechanical bump test station. Further advantages include powerful fleet management via our smart software solution, convenient firmware updates in the X-dock, an optional RFID transponder, and individual color marking of the devices. Sensors are durable and devices remain operational for years, with easy-to-replace spare parts, including the power supply. Dräger provides a 4-year manufacturer's warranty on the basic device, and is compatible with X-am 2500 accessories.

### Tailor-Made Gas Monitoring

The X-am 2800 is small and lightweight, comfortable to wear, and easy-to-use, with large buttons for ease of use while wearing gloves. The display clearly shows important information, such as gas readings, alarms and time. The green D-light indicates that the unit is ready for use, with a simple interface. For added safety, the oxygen channel has four alarm thresholds, real pre-alarms, and main alarms for falling and rising concentrations. The X-am 2800 is approved for use in Ex zone 0, and has been tested according to protection class IP 68.

### Sensors: Durable and Powerful

The newly-developed CatEx SR sensor calibrates within seconds and protects against shocks, measuring flammable vapors, such as gasoline, diesel, and nonane. The unit can also be set to measure methane, propane, hydrogen, and many other gases. The performance is complemented by Dräger's simple cross calibration concept, in which the measurement gas, calibration gas, and bump test gas can be specified individually. The X-am 2800 calculates the necessary conversations after testing, and the sensor meets the new IEC standard 60079-29-1 (International Electrotechnical Commission) standards.

With decades of experience in sensor technology, Dräger develops and produces the sensors itself, including the powerful and durable electrochemical sensors in the XXS format, resulting in lower operating costs.

# Benefits

## Focus on Sustainability

During the development of the X-am 2800, sustainability was priority. The durable Dräger sensors and the rechargeable power supply, which can be easily replaced with one screw, ensure a long service life. Almost all spare parts can be replaced by trained users, with remaining parts repaired by Dräger Service. In addition, the X-am 2800 is compatible with accessories from the previous series. Upon request, a reduced number of instructional manuals will be supplied, saving paper, and recycling of old devices is available.

| | Dräger X-am® 2800 | Dräger X-am® 5800** |
|---|---|---|
| Portfolio | This is the ''connected'' standard 1 – 4 gas monitor for Personal Air Monitoring (and Confined Space Entry in combination with the X-am pump)** | This is the ''connected'' 1 – 6 gas monitor for Personal Air Monitoring and Confined Space Entry (in combination with the X-am pump) and X-zone |
| Number of gas channels | 1 – 4 | 1 – 6 |
| Bluetooth | yes* | yes* |
| **System components** | | |
| X-dock | yes | yes |
| Bumptest Station | yes | yes |
| Gas Detection Connect | yes | yes |
| CC Vision / Gas Vision | yes | yes |
| X-zone 5500/5800 | no | yes |
| X-am Pump | yes** | yes** |
| **Sensors** | | |
| Sensor slots | 1 x CatEx SR / 3 x XXS Sensors | 1 x CatEx SR / XD-IR / PID / 3 x XXS (1 x Dual XXS)** |
| CatEx sensor (CatEx SR) | yes | yes |
| IR sensor (XD-IR) | no | yes |
| PID | no | yes |
| XXS Standard sensors ($O_2$, CO LC, $H_2S$ LC, $SO_2$, $NO_2$) | yes | yes |
| XXS Special sensors | no | yes |
| CatEx full range function | no (but thermal conductivity can be activated so that no blocking alarm occurs for gas methane) | yes (for measurement gas methane) |
| IR LEL sensor + XXS H2 HC: signal combination | no | yes |
| * selected countries may be excluded  |  ** please contact Dräger on availability of this feature/instrument | | |

# System Components



D-40484-2021

## Gas Detection Connect

Dräger Gas Detection Connect is your connection to the digital future of occupational safety. The system connects individual Dräger products through a smart software solution. Thanks to location- and time-independent access, you always have access to the position and status of your gas detection equipment and workers, allowing you to protect your workforce and increase the efficiency of your plant.



D-47907-2012

## Dräger X-dock® 5300/6300/6600

The Dräger X-dock® series provides you with full control of your portable Dräger gas detection instruments. Automatic bump tests and calibrations with reduced test gas consumption and short testing times save time and money. Comprehensive documentation and evaluations provide you with a clear overview.



ST-740-2006

## Dräger Bump Test Station

Easy to use, stand-alone, and portable. With the Bump Test Station, you can easily carry out functionality tests of gas detection and warning devices.



D-0494-2018

## Test gases and accessories

Regular calibrations and function tests are necessary for the safe operation of your equipment and are required by governing agencies. Dräger offers a full line of test gases and accessories to keep you in compliance.

# System Components



D-35438-2015-D-35437-2015

**Dräger CC-Vision® & Dräger Gas-Vision®**

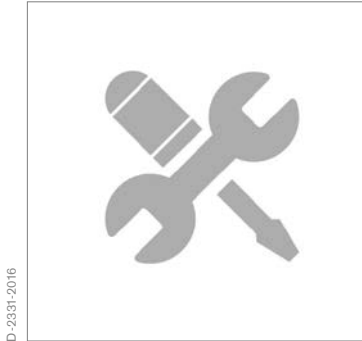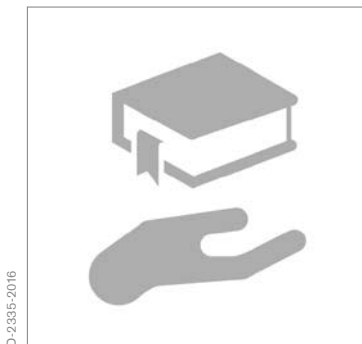PC software for setting parameters, testing/adjusting, and reading the data.

# Accessories



D-6402-2021

**Charging set**

Desktop charger for individual or bulk charging of instruments. Worldwide adapters are also available.

# Services

D-2331-2016

### Product Service

Dräger's service packages, available in our local shops or on-site at your facility, feature preventive maintenance, service, and original replacement parts to keep your equipment working and minimize downtime.

D-2335-2016

### Training

The Dräger Academy has imparted well-founded and practical knowledge for over 40 years, the Dräger Academy has provided workers with the tools needed to effectively use our equipment. With over 110 authorized trainers and more than 600 available topics, we conduct over 2,400 training sessions each year, and customized training programs are available.

D-2330-2016

### Rental Service

Whether it's to alleviate a temporary shortage of equipment or to procure equipment for specific applications; DrägerRental Service is an economical alternative to purchasing. Choose from our 65,000 piece inventory as well as a wide range of additional services available upon request.

# Related Products

D-406-2018

## Dräger X-am® 3500

The Dräger X-am® 3500, a 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 signalling design and extensive range of accessories ensure optimum safety and easy handling.

D-6491-2017

## Dräger X-am® 8000

This 1- to 7-gas detector monitors toxic and flammable gases as well as vapors and oxygen at once – in either pump or diffusion mode. Innovative signalling design and additional functions ensure safety and convenience.

# Technical Data

| | |
|---|---|
| Dimensions (W x H x D) | 130 x 48 x 44 mm (5.12 x 1.89 x 1.73 in) |
| Weight | typically 220 to 250 g (7.76 to 8.82 oz), depending on sensor equipment |
| Housing | robust 2-component housing |
| Dipslay | Matrix display with high resolution |
| **Ambient conditions** | |
| Temperature | -20 to+50 °C (-4 to 122 F) (Measurement and storage) |
| | -40 to+50 °C (-40 to 122 F) (Use in potentially explosive atmospheres) |
| Pressure | 700 to 1300 mbar (Measurement) |
| | 800 to 1100 mbar (Use in potentially explosive atmospheres) |
| Relative humidity | 10 to 95 % r.h. |
| | 5 to 95 % r.h. short term |
| Protection class | IP68 |
| **Alarms** | |
| Visual | 3 LED "red" (gas alarms) |
| | 3 LED "yellow" (device alarm) |
| Audible | Multi-tone > 90 dB at 30 cm (12 in) |
| Vibration | |
| **Additional technical specifications** | |
| Energy supply | NiMH battery (no dangerous goods: UN marking) required during transport), replaceable by user, rechargeable |
| Bluetooth® | Bluetooth 5.0 (disabled for some countries outside the EU and outside North America, but can be retrofitted. Contact DrägerService). |
| Operating times | Approx. 12 h (Bluetooth active) |
| | Approx. typical 100 h without Ex-sensor |
| Charging time | < 4 h |
| Ready for measurement | < 60 s after switch-on |
| Data logger | Application of an optimised data compression method with high accuracy and large storage capacity. (Typically data compression >90 % compared to the traditional data logger concept with adjustable interval) |
| **Approvals** | |
| Marking Explosion protection: | |
| ATEX | I M1 Ex da ia I Ma |
| | II 1G Ex da ia IIC T4 Ga (usable in Ex-Zone 0) |
| IECEx | Ex da ia I Ma |
| | Ex da ia IIC T4 Ga (usable in Ex-Zone 0) |
| CSA (USA & Canada) | CSA approval: cCSAus |
| | Class I, Zone 0, AEx da ia IIC T4 Ga |
| | Class I, Div 1, Groups A, B, C, D |
| | Class II, Div 1, Gr. E, F, G |
| EAC | Contact Dräger for availability |
| Directives | 2014/34/EU (ATEX) |
| | 2014/53/EU (RED) |
| | 2011/65/EU (RoHS) |

**Manufacturer's warranty**
5 years for the : XXS $O_2$, XXS CO, and XXS $H_2S$
4 years for the device (electronics and housing)
3 years for the CatEx SR and XXS $O_2$ PR sensor
(except $NO_2$ (1 year) and $SO_2$ (2 years))
1 year for the energy supply (accumulator)

# Ordering Information

**Dräger X-am® 2800**

| Part numbers | Order no. |
|---|---|
| Dräger X-am 2800 Ex, O₂, CO, H₂S (Settings: Factory default settings with standard alarm thresholds, unit CatEx SR: "%LEL", with power supply (rechargeable battery), without charger, CatEx SR: methane adjustment, oxygen 0 – 25 vol.-% measuring range). (For charging, additionally e.g. the charging set Basic is required, part number: 8320333) | VN00605 |

| **Configurator** | |
|---|---|
| Dräger X-am 2800 (configurator) consisting of: Basic device (with data logger), delivery with manufacturer and calibration certificate. Configurator: up to 4 sensors can be selected, sensor configuration can be changed later in product life. Customer-specific settings (firmware) can be selected when ordering, examples: Measurement gas for the Ex sensor (factory setting: methane), alarm thresholds, alarm behaviour, quick menu options, D-light etc. Power supply (battery) optional (factory setting: with battery), without charger | 3703900 |
| Instruction for use included in the standard scope of delivery in the following languages: GER, EN, FR, ES, PT, IT, NL, RU, ZH, JA | 9300307 |
| Instruction for use available in other languages: DA, FI, NO, SV, PL, HR, SL, SK, CS, BT, RO, HU, EL, TR, KO, ET, LV, LT | Available as download on the product page: www.draeger.com/ifu Part number: 9300428 |
| Technical manual available in the following languages: : GER, EN, FR, ES, RU | Available as download on the product page: www.draeger.com/ifu Part number: 9300310 |
| Selected device options when placing the order | RFID transponder |
| | Number of instructions for use (for order n > 1) |
| | Bluetooth® communication protocol for integration into third-party systems (GATT license) |
| Bluetooth® communication protocol (GATT License) for subsequent activation | |
| Dräger X-am Open GATT License (1 pc.) | 3723353 |
| Dräger X-am Open GATT License (10 pc.) | 3723354 |
| Dräger X-am Open GATT License (50 pc.) | 3723355 |
| Slot 1: CatEx SR Sensor | |
| Slot 2 – 4: Electrochemical Sensors in XXS Format | |

# Ordering Information

| DrägerSensors | Sample gases | Measuring range | Resolution | Expected service life | Order no. |
|---|---|---|---|---|---|
| CatEx SR (Shock Resitant) [1] [2] (factory setting: methane, other measuring gases selectable) | methane, additional gases adjustable (propane, pentane, nonane, hydrogen and many more) | 0 – 100 % LEL | 1 % LEL | > 4 years | 6851900 |
| | methane | 0 – 5 Vol.-% CH4 | 0.1 Vol.-% | | |
| XXS O₂ [1] (4 alarm thresholds) | oxygen | 0 – 25 Vol% | 0.1 Vol.-% | > 5 years | 6810881 |
| XXS O₂ PR (4 alarm thresholds, increased robustness) | oxygen | 0 – 30 Vol% | 0.1 Vol.-% | > 5 years | 6800530 |
| XXS CO LC [1] | carbon monoxide | 0 – 2.000 ppm | 1 ppm | > 5 years | 6813210 |
| XXS H₂S LC [1] | hydrogen sulphide | 0 – 100 ppm | 0.1 ppm | > 5 years | 6811525 |
| XXS NO₂ | nitrogen dioxide | 0 – 50 ppm | 0.1 ppm | > 3 years | 6810884 |
| XXS SO₂ (with KX-Filter) | sulphur dioxide | 0 – 100 ppm | 0.1 ppm | > 3 years | 6810885 |

All sensors: Response time T90: < 15 s (CatEx SR: specification for gas methane/propane)

1) Manufacturer's warranty: 3 years, The statutory rights for defects remain unaffected, Manufacturer's warranty according to the conditions listed in the technical documentation.

2) Special calibration for the Ex sensor is possible (default setting: methane, target gas calibration and cross calibration is possible).

| | |
|---|---|
| CatEx SR, sample gas "Methane" Option: No blocking alarm for sample gas methane (2 sensitivity calibrations required, display: overrange) | For availability of the function: Please contact Dräger |

### Power supply units/chargers

| | |
|---|---|
| Charging set Basic consisting of a desktop charger and power supply (worldwide) | 8320333 |
| Battery and charging set (2.0): NiMH supply unit T4 with desktop charger and power supply unit (complete set) | 3703889 |
| NiMH supply unit T4 (2.0) battery only | 3703887 |
| Charging adapter (for charging a rechargeable battery without X-am unit) | 8326101 |
| Desktop charger | 8318639 |
| Plug-in power supply (worldwide) for charging 1 unit | 8316997 |
| Plug-in power supply (worldwide) for up to 5 charging modules | 8316994 |
| Adapter for power plug (only necessary for 8321849 and 8321850) | 8325736 |
| Power supply unit 100-240 VAC; 1.33 A for up to 5 charging modules (power supply unit adapter 8325736 additionally required) | 8321849 |
| Power supply unit 100-240 VAC; 6.25 A for up to 20 charging modules (power supply unit adapter 8325736 additionally required) | 8321850 |
| Truck charger connection cable 12 V / 24 V for charging module (straight plug) | 4530057 |
| Truck charger connection cable 230 V for charging module (straight plug, for use on 230 V sockets with the vehicle installation bracket in vehicles) | 8315675 |
| Truck charger mounting bracket for a Dräger X-am® 1/2/5x00 charging module (base plate and strap). (also requires part number 4530057 or 8315675). | 8318779 |
| Replacement strap for truck charger bracket | 8318788 |

# Ordering Information

**Pump accessories**

| | |
|---|---|
| Dräger X-am® Pump (external pump) | 8327115 |
| GP600 Probe (plastic), with Luer connection | 8328667 |
| Telescopic probe ES 150, stainless steel (connection for filter is included in SN 8319364 (dust/water filter)). | 8316533 |
| Floating probe (transparent), with adapter | 8327654 |
| 5 m (16 ft) FKM hose, 3.2 mm, with adapters | 8325705 |
| 10 m (32 ft) FKM hose, 3.2 mm, with adapters | 8325706 |
| 20 m (66 ft) FKM hose, 3.2 mm, with adapters | 8325707 |
| 45 m (148 ft) FKM hose, 3.2 mm, with adapters | 8325712 |
| Dust and water filter for pump inlet (replacement filter) | 8319364 |
| Dust and water filter for pump inlet (replacement filter, 20 pieces) | 3705997 |
| Confined space entry kit (free measuring) with external pump and 5 m (16 ft) FKM hose | 8327117 |
| Empty case, with space for X-am® 1/2/5x00, charging accessories, probe, gas cylinder, pump, 3 m (10 ft) hose and much more. | 8327112 |
| Other probes and hoses | On request |

**Calibration accessories**

| | |
|---|---|
| Calibration adapter for Dräger X-am® 1/2/5x00 | 8318752 |
| Further versions and accessories Dräger X-dock® | Please contact Dräger |
| Automatic test station Dräger X-dock® 5300 (with master) 1/2/5x00 | 8321880 |
| Dräger X-dock module X-am 125 | 8321890 |
| Dräger X-dock module X-am 125+ (with charging function) | 8321891 |
| Dräger Bump Test Station for Dräger X-am® 1/2/5x00 (without gas cylinder) | 8319131 |
| Test gas: CH4 2.5 vol%, O₂ 17 vol%, CO 100 ppm, H₂S 25 ppm | 4594655 |
| Test gas: Other types | Please contact Dräger |
| Other accessories (hoses, valves, etc.) | Please contact Dräger |

**Accessories for measured value acquisition and configuration**

| | |
|---|---|
| Dräger CC-Vision | Freeware (www.draeger.com/software) |
| Dräger GasVision license key | 8325646 Trial Version (www.draeger.com/software) |
| USB DIRA with USB cable, communication adapter infrared to USB (Note: Positioning is done with the calibration cradle. Pn: 8318752). | 8317409 |

**Dräger Gas Detection Connect**

| | |
|---|---|
| GDC Intro License | 3719332 |
| includes: Access, infrastructure, connection of up to 99 X-dock stations, 5,000 credits, valid for one year after activation. | |
| GDC Basic License | 3719809 |
| includes: IT infrastructure (data storage, maintenance, automatic feature updates, troubleshooting). 24/7 support, access | |
| GDC Asset License | 3719810 |
| includes: Definable number of X-dock stations, requires the Basic License | |
| GDC Asset Lite | 3719811 |
| includes: One X-dock station, non-expandable, does not require a Basic License | |
| GDC Credits | 3719814 |
| includes: Definable number of credits for sending live data, orderable in packages of 1000 credits. | |

## Ordering Information

**Other accessories**

| | |
|---|---|
| Leather carrying case (black) | 8318755 |
| Transponder reader (for reading the optionally integrated RFID transponder) | 6559283 |
| Set of stickers X-am 2800/5800 silver (10x) | 3703852 |
| Set of stickers X-am 2800/5800 red (10x) | 3703853 |
| Set of stickers X-am 2800/5800 blue (10x) | 3703854 |
| Set of stickers X-am 2800/5800 yellow (10x) | 3703855 |
| Set of stickers X-am 2800/5800 green (10x) | 3703856 |
| Set display protection cover X-am 2800/5800 (10x) | 3703857 |
| E-set Upgrade RFID transponder (5 pcs.) (with adhesive tape) | 3703898 |
| Seal ring extractor (for changing XXS sensors). | R21402 |
| (Selected sensors are supplied with a similar tool ex works). | |

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