Dräger X-am® 2800
Multi-Gas Detector

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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.

Dräger

Technology for Life

Dräger X-am® 2800

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

Large buttons for ease of use while wearing gloves

D-7284-2021

Dräger

12:00
ch4
%LEL   0
O2
Vol%   20.9
CO
PPM   0
H2S
PPM   0.0

OK

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 conversions after testing, and the sensor meets the new IEC standard 60079-29-1 (International Electrotechnical Commission) standards.
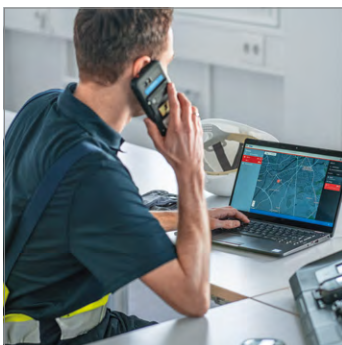
With decades of experience in sensor technology, Dräger develops and produces the sensors itself, including the powerful and durable electrochemical sensors in the XXS format, resulting in lower operating costs.

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

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.

System Components

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.

D-47907-2012

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-24997-2020

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.

D-0494-2018

Dräger CC-Vision® & Dräger Gas-Vision®

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

D-35438-2015-D-35437-2015

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)
Pressure	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)

Technical Data

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 (2 years) and SO_2 (2 years))	
2 years for the battery pack	

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.	NA11349
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), with charger.	NA11350

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 Resistant) [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 O$_2$ [1] (4 alarm thresholds)	oxygen	0 – 25 Vol%	0.1 Vol.-%	> 5 years	6810881
XXS O$_2$ 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 H$_2$S LC [1]	hydrogen sulphide	0 – 200 ppm	0.1 ppm	> 5 years	6811525
XXS NO$_2$	nitrogen dioxide	0 – 50 ppm	0.1 ppm	> 3 years	6810884
XXS SO$_2$ (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

Ordering Information

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

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 PN 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

Ordering Information

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%, O_2 17 vol%, CO 100 ppm, H_2S 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 includes: Access, infrastructure, connection of up to 99 X-dock stations, 5,000 credits, valid for one year after activation.	3719332
GDC Basic License includes: IT infrastructure (data storage, maintenance, automatic feature updates, troubleshooting). 24/7 support, access	3719809
GDC Asset License includes: Definable number of X-dock stations, requires the Basic License	3719810
GDC Asset Lite includes: One X-dock station, non-expandable, does not require a Basic License	3719811
GDC Credits includes: Definable number of credits for sending live data, orderable in packages of 1000 credits.	3719814

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). (Selected sensors are supplied with a similar tool ex works).	R21402