

## Dräger X-am® 5600 Personal Monitor Multi-Gas Detection Device

INSTRUMENTS • CONTROLS • VALVES

[CLICK TO VISIT OUR WEBSITE](#)

**ARCO**

Engineering, Inc.  
SINCE 1954  
www.arcoengineering.com

3317 Gilmore Industrial Blvd.  
Louisville, KY 40213

Ph: (502) 966-3134  
Fx: (502) 966-3135

Featuring an ergonomic design and innovative infrared sensor technology, the Dräger X-am® 5600 is the smallest gas detection instrument for the measurement of up to 6 gases. Ideal for personal monitoring applications, this robust and water-tight detector provides accurate, reliable measurements of explosive, combustible and toxic gases and vapors as well as oxygen.



## Benefits

---

### Small yet robust

Small, light and easy to use—the robust and water-tight gas detector X-am 5600 is designed for single-handed operation in tough industrial environments. Water- and dustproof according to IP67 and with an integrated rubber boot, the device provides optimal functionality even under harsh conditions.

---

### Durable infrared technology

Thanks to the high stability and a resistance to contamination, Dräger infrared sensors can generally be used for up to eight years. This advanced technology reduces the cost of ownership considerably because less replacement sensors are needed. In addition, a sensor calibration is only necessary every 12 months which reduces maintenance costs.

---

### Single or dual sensor—accurate measurement results

The infrared sensor IR Ex allows the measurement of explosive, combustible hydrocarbons in the range of the lower explosive limit. The infrared sensor IR CO<sub>2</sub>, with a measurement resolution of 0.01 Vol.-%, provides safe and exact measurements as well as a warning against toxic concentrations of carbon dioxide in the ambient air. For those applications where the reliable measurement of explosive substances and CO<sub>2</sub> is specifically needed, the advantages of both can be achieved by a dual sensor (Dual IR CO<sub>2</sub>/Ex).

---

### Also in combination with Hydrogen

Besides hydrocarbons, hydrogen can also be an explosive gas. Because sensors based on infrared technology do not warn against hydrogen explosion dangers, the gas detector X-am 5600 combines two sensor signals (Infrared Ex and electrochemical H<sub>2</sub>) for reliable hydrogen detection. The X-am 5600 provides the advantages of poison-free technology to be used in areas where, until now, only catalytic Ex sensors have been used.

---

### Various monitoring possibilities

Thanks to the combination of innovative infrared technology and the latest electrochemical Dräger XXS miniature sensors, this 1-to-6 gas detector reliably detects explosive, combustible and harmful concentrations of O<sub>2</sub>, Cl<sub>2</sub>, CO, CO<sub>2</sub>, H<sub>2</sub>, H<sub>2</sub>S, HCN, NH<sub>3</sub>, NO, NO<sub>2</sub>, PH<sub>3</sub>, SO<sub>2</sub>, O<sub>3</sub>, Amine, Odorant, COCl<sub>2</sub> and organic vapors. With the PC software Dräger CC-Vision, the sensors can easily be exchanged, calibrated or converted to meet the needs of different applications.

---

### Flexible use

An optional external pump which can be operated with hoses up to 45 m / 147 ft in length is the perfect solution for pre-entry measurements in tanks or pipelines. To monitor entire areas, the gas detector X-am 5600 can be used in combination with the innovative air monitor Dräger X-zone 5500.

## Benefits

---

### Suitable for Ex-Zone 0

The small and reliable gas detector is suitable for use in areas classified as zone 0, which are areas where explosive atmospheres are always to be expected.

---

### Area monitoring

In combination with the Dräger X-zone 5500 the gas detector can be used for various area monitoring applications. Up to 25 Dräger X-zone 5500 units can be automatically interconnected to form a wireless fenceline. This interconnection of the area monitoring devices allows for the fast securing of larger areas, e.g. pipelines or industrial tanks—even within the scope of industrial shutdowns.

## System Components



### Dräger Bump Test Station

The Bump Test Station is easy to use, stand-alone and flexible. In this regard, function tests of gas detection and warning devices can be carried out easily and independently of the location.

## System Components



D-479107-2012

### **Dräger X-dock® 5300/6300/6600**

Automatic bump tests, calibration, reduced test gas consumption, short testing times, and comprehensive documentation come standard in this new device from Dräger, the experts in gas detection.

## Accessories



D-12284-2009

### **Power pack & charging set**

NiMH supply unit T4 with charger module und power pack



D-12286-2009

### **Power pack with connection cable (for worldwide use)**

for up to 20 charger modules

## Accessories



ST-14360-2008

### Calibration cradle



D-11857-2016

### Dräger X-am® 125 external pump

External pump for hose length of up to 45 meters (147 feet). Makes it possible to use the detector for pre-entry measurements into confined spaces such as tanks, shafts, etc. The pump starts automatically when the detector is attached. The change between diffusion and pump operation is quick and easy without any need for additional tools or steps.

## 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.

## Related Products

ST-1639-2007



### Dräger X-am® 5000

The Dräger X-am® 5000 belongs to a generation of gas detectors, developed especially for personal monitoring applications. This 1- to 5-gas detector reliably measures combustible gases and vapors as well as O<sub>2</sub> and harmful concentrations of toxic gases, organic vapors, odorant and amine.

D-43530-2015



### Dräger X-am® 2500 Personal Monitor

Dräger's X-am® 2500 accurately detects O<sub>2</sub>, CO, NO<sub>2</sub>, SO<sub>2</sub> and H<sub>2</sub>S and is the only 1-4 gas monitor you need in industrial and refinery applications. The X-am® 2500 combines reliable sensor technology with long battery life and intuitive operation in an instrument that defines safety.

ST-67-2006



### Dräger X-am® 7000

Dräger X-am® 7000 is the innovative solution for the simultaneous and continuous measurement of up to five gases. A combination of more than 25 sensors allows flexible solutions to individual monitoring tasks. It is the ideal companion in a variety of applications where the reliable detection of oxygen, toxic and combustible gases and vapors is necessary.

D-4846-2014



### Dräger X-zone® 5500

Dräger's X-zone 5500 brings a safer, more effective way to monitor hazardous gases-reinventing area monitoring. In combination with the Dräger X-am® 5000, 5100, or 5600 gas detection instruments, the X-zone® 5500 can be used for the measurement of up to six gases and extends the range of your portable gas detection technology exponentially.

## Technical Data

Dimensions (W x H x D)	1.85 x 5.12 x 1.73 inches; 47 x 130 x 44 mm	
Weight	8.8 oz.; 250 g	
Ambient conditions	Temperature	-4 to +122 °F; -20 to +50 °C
	Pressure	700 to 1,300 mbar; 20.7 to 38.4 inch Hg
	Humidity	10 to 95% RH
Alarms	Visual	360°
	Audible	Multi-tone >90 dB at 30 cm; 1 ft.
Ingress Protection	IP67	
Operating time	~10 h or rather ~12 h	
Charging time	< 4 hours	
Data logger	Can be read out via Infrared >1,000 hours with 6 gases and a recording interval of 1 value per minute	
Pump operation	Maximum hose length 45 m; 147 ft.	
Approvals	ATEX	I M1 Ex ia I Ma II 1G Ex ia IIC T4/T3 Ga
	IEC	Ex ia I Ma Ex ia IIC T4/T3 Ga for MQG 01
	MED	Marine Equipment Directive (0736-YY)
	CSA	Class I, Div. I, Groups A, B, C, D TC T4/T3 Class I, Zone 0, A/Ex ia IIC T4/T3 /Ga

## Ordering Information

Dräger X-am® 5600 Basic	Order code
Consisting of: basic instrument with an integrated data logger, support CD, manufacturer's and calibration certificates. A functional instrument must include up to 4 sensors and a power supply unit.	83 22 930

Infrared-Sensors	Measuring Range	Resolution	Response time (t <sub>90</sub> )	Order code
DrägerSensor Dual IR Ex/CO <sub>2</sub> <sup>1)</sup>	0 – 100 % LEL	1 % LEL	20 sec.	68 11 960
	0 – 100 Vol.-% Methane, Propane, Ethylene	0.1 Vol.-% CH <sub>4</sub>		
	0 – 5 Vol.-% CO <sub>2</sub>	0.01 Vol.-% CO <sub>2</sub>		
DrägerSensor IR Ex <sup>1)</sup>	0 – 100 % LEL	1 % LEL	20 sec.	68 12 180
	0 – 100 Vol.-% Methane, Propane, Ethylene	0.1 Vol.-% CH <sub>4</sub>		
	0 – 5 Vol.-% CO <sub>2</sub>	0.01 Vol.-% CO <sub>2</sub>		
DrägerSensor IR CO <sub>2</sub> <sup>1)</sup>	0 – 5 Vol.-% CO <sub>2</sub>	0.01 Vol.-% CO <sub>2</sub>	20 sec.	68 12 190
Electrochemical Sensors	Measuring Range	Resolution	Response time (t <sub>90</sub> )	Order code
DrägerSensor XXS O <sub>2</sub>	0–25 Vol.-%	0.1 Vol.-%	10 sec.	68 10 881
DrägerSensor XXS CO	0–2,000 ppm	2 ppm	15 sec.	68 10 882
DrägerSensor XXS CO HC	0–10,000 ppm	5 ppm	25 sec.	68 12 010

## Ordering Information

DrägerSensor XXS CO/ H <sub>2</sub> compensated	0–2,000 ppm CO	2 ppm	25 sec.	68 11 950
DrägerSensor XXS H <sub>2</sub> S	0–200 ppm	1 ppm	15 sec.	68 10 883
DrägerSensor XXS H <sub>2</sub> S LC	0–100 ppm	0.1 ppm	15 sec.	68 11 525
DrägerSensor XXS H <sub>2</sub> S HC	0–1,000 ppm	2 ppm	15 sec.	68 12 015
DrägerSensor XXS CO/ H <sub>2</sub> S	0–2,000 ppm CO/ 0–200 ppm H <sub>2</sub> S	1 ppm H <sub>2</sub> S/2 ppm CO	20 sec.	68 11 410
DrägerSensor XXS NO	0–200 ppm	0.1 ppm	10 sec.	68 11 545
DrägerSensor XXS NO <sub>2</sub>	0–50 ppm	0.1 ppm	15 sec.	68 10 884
DrägerSensor XXS SO <sub>2</sub>	0–100 ppm	0.1 ppm	15 sec.	68 10 885
DrägerSensor XXS PH <sub>3</sub>	0–20 ppm	0.01 ppm	10 sec.	68 10 886
DrägerSensor XXS PH <sub>3</sub> HC	0–2,000 ppm	1 ppm	10 sec.	68 12 020
DrägerSensor XXS HCN	0–50 ppm	0.1 ppm	10 sec. (t50)	68 10 887
DrägerSensor XXS NH <sub>3</sub>	0–300 ppm	1 ppm	20 sec. (t50)	68 10 888
DrägerSensor XXS CO <sub>2</sub>	0–5 Vol.-%	0.1 Vol.-%	30 sec. (t50)	68 10 889
DrägerSensor XXS Cl <sub>2</sub>	0–20 ppm	0.05 ppm	30 sec.	68 10 890
DrägerSensor XXS H <sub>2</sub>	0–2,000 ppm	5 ppm	10 sec.	68 12 370
DrägerSensor XXS H <sub>2</sub> HC	0–4 Vol.-%	0.01 Vol.-%	20 sec.	68 12 025
DrägerSensor XXS OV	0–200 ppm	0.5 ppm	20 sec. (t50)	68 11 530
DrägerSensor XXS OV-A	0–200 ppm	1 ppm	40 sec. (t50)	68 11 535
DrägerSensor XXS Amine	0–100 ppm	1 ppm	30 sec.	68 12 545
DrägerSensor XXS Odorant	0–40 ppm	0.5 ppm	90 sec.	68 12 535
DrägerSensor XXS COCl <sub>2</sub>	0–10 ppm	0.01 ppm	30 sec.	68 12 005
<b>Electrochemical Sensors with 5 years warranty</b>				
DrägerSensor XXS E CO	0 – 2,000 ppm	2 ppm	15 sec.	68 12 212
DrägerSensor XXS E H <sub>2</sub> S	0 – 200 ppm	1 ppm	15 sec.	68 12 213
DrägerSensor XXS E O <sub>2</sub>	0 – 25 Vol.-%	0.1 Vol.-%	10 sec.	68 12 211
1) Special calibration for Ex sensors are available (standard setting: methane)				
<b>Power supply units</b>				
NiMH power pack T4				83 18 704
NiMH power pack T4 high capacity				83 22 244
Power pack & charging set consisting of: rechargeable NiMH power supply T4, charging module and a single charger (for worldwide use)				83 18 785
Alkaline power pack T3/T4 (without alkaline batteries)				83 22 237
Alkaline batteries T4 (2 pcs.) for alkaline power supply	83 22 237	45 88 195		
NiMH rechargeable batteries T3 for alkaline power supply unit 83 18 703, charged externally				83 19 426



## Ordering Information

### Charging accessories

Charging module	83 18 639
Charging set basic, consisting of one charging module and a single power supply (worldwide use)	83 20 333
Power supply with connection cable (worldwide use) for max. 20 charging modules	83 15 805
Single charger (worldwide use) for max. 5 charger modules	83 16 994
Single charger (worldwide use) for max. 2 charger modules	83 15 635
Car charging connection cable 12 V/24 V for a charging module	83 17 754
Vehicle charger mounting kit for one Dräger X-am® 5600 charging module	83 18 779

### Pump Accessories

Dräger Mark II X-am® Pump incl. USB charger with wall plug and shoulder strap	83 27 115
CSE Set for Dräger X-am® Mark II Pump	83 27 117
Customizable Expanded Dräger X-am® 5000/5600 CSE Kit with Mark II Pump	83 27 106
USB 2.0 Cable	83 27 108
USB power supply	83 27 102
Shoulder strap	83 19 386
Case for Dräger X-am® Mark II Pump	83 27 104
Filter with hose connector (3 mm / 0.12 in and 5 mm / 0.20 in)	83 19 364
Clamp	56 00 956
Telescopic Probe ES150, 1.5 m / 4.9 ft	83 16 533
Telescopic Probe, 1.4 m / 4.5 ft	45 10 546
Telescopic Probe, 2 m / 6.5 ft	45 10 545
Float probe	83 27 654
5 m / 16.4 ft FKM hose (diameter 3 mm / 0.12 in)	83 25 705
Dust/Water Stop Filter for 1/2/5 Pump	45 43 759
Kit, pump inlet w/nut, X-am® 1/2/5	45 94 854

### Calibration accessories

Dräger E-Cal module for Dräger X-am® 5600	83 18 754
Dräger Bump Test Station for Dräger X-am® 5600, not including gas cylinder	83 19 131
Printer set for Dräger Bump Test Station consisting of: Dräger Mobile Printer, single charger, rechargeable NiMH batteries, USB connection cable, positioning aid	83 21 011

### Communication accessories

Dräger GasVision®	83 14 034
Dräger CC-Vision®	64 08 515
USB DIRA with USB cable, communication adapter infrared to USB	83 17 409
PC communication set 1 with USB port, Dräger CC-Vision® includes registration software	83 18 761
PC communication set 2 with USB port, Dräger CC-Vision® includes registration software and barcode reader	83 18 762

### System components

Dräger X-zone® 5500, 915 MHz, 24 Ah	83 24 823
Dräger X-zone® 5500, 915 MHz, 24 Ah, with Pump	83 24 825

## Ordering Information

In conjunction with the portable alarm amplifier Dräger X-zone® 5500 the units are combined into a new system; to monitor whole working areas or to connect to external alarm contacts.

---

Viton® is a registered trademark of DuPont Performance Elastomers.

---

## 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](http://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](http://www.draeger.com)

### **Customer Service:**

**USA**  
+1 800-4DRAGER  
(+1 800-437-2437)

### **Technical Service:**

**USA**  
+1 800-4DRAGER  
(+1 800-437-2437)

Locate your Regional  
Sales Representative at:  
[www.draeger.com/contact](http://www.draeger.com/contact)

