

## Dräger X-am® 7000 Portable Multi Gas Detector

Dräger X-am® 7000 is the solution for the simultaneous and continuous measurement of up to five gases. It is the ideal companion in a variety of applications where the reliable detection of oxygen, toxic and combustible gases and vapors are necessary.



### FLEXIBILITY THROUGH SENSOR VARIETY

The extensive portfolio of over 25 different DrägerSensors enables the detection of more than 100 gases and vapors. The Dräger X-am 7000 can be equipped with three electrochemical, and two catalytic bead, infrared or photo ionization sensors. During operation, it is also possible with the catalytic-Ex sensor to change the gas being measuring or the measurement range of the sensor. In this way, the instrument can be easily adapted to various applications. DrägerSensors are renowned for their fast response time, minor cross sensitivities, high level of accuracy and long lifetimes.

### INTELLIGENT AND INTERCHANGEABLE SENSORS

In addition to the electrochemical sensors, the catalytic, infrared and photo ionization sensors are automatically recognized by the instrument upon insertion. All sensors are pre-calibrated, and therefore a reconfiguration of the Dräger X-am 7000 can be done by simply changing the sensor. No additional service or maintenance is necessary.

### POISON RESISTANT EX-SENSOR

Advanced safety in explosive atmospheres: thanks to the high sensitivity of the innovative Ex-sensor to combustible organic

vapors the Dräger X-am 7000 warns reliably of danger of explosions. It not only responds quickly to combustible gases and vapours, it is also characterised by its high resistance against silicone and hydrogen sulphide contamination. In combination with the high degree of drift stability, this resistance enables an extraordinarily long service life of more than four years. This will reduce your operational costs.

### ROBUST AND WATERTIGHT

A specially designed rubber boot protects the instrument against damage even from a drop of 1.5 m or 5 ft. In addition to the built in dust and water filter, the Dräger X-am 7000 can be submersed in up to 1 m or 3 ft. of water without damage.

### BUILT FOR LONGEVITY

The completely new design of the rechargeable battery pack with intelligent charging-management guarantees full functionality of the instrument over a period of up to 20 hours. An alkaline battery pack is also available. The DrägerSensors used in the Dräger X-am 7000 have a typical lifetime of over five years. If a sensor exchange should become necessary, the modular approach of the instrument allows for this in a few simple steps.



**Dräger X-am® 7000**  
Modular, rugged and water-tight complete with an integrated high-performance pump.

### MULTIPLE ALARMS

Alarm conditions can not be ignored because of the extremely loud multi-tone horn. In addition, the visual alarm can be seen 360°, ensuring that the user notices the warning. By generating an optional life-signal every six seconds, the Dräger X-am 7000 confirms that it is functioning properly.

### STRONG INTEGRATED PUMP

The built-in high-performance pump makes it possible to sample gas using a hose up to 45 m/150 ft. long. The operation of the pump is continuously monitored, and the instrument will generate an alarm if the flow of gas reduces.

### EASY DETECTION OF LEAKAGES

A flexible “gooseneck” probe eases the search for leakages on pipelines, valves,

flanges, etc. In the tracking-mode, the instrument generates an increasing or decreasing rate of beeps, depending on the gas concentration detected.

### INFORMATION AT ONE GLANCE

The large graphic display and the auto-zoom function during alarms guarantee an easy recognition of the measurement values and symbols displayed for immediate reaction to the situation or hazards. All information is provided in plain text for easy understanding.

### INTUITIVE SOFTWARE FUNCTIONS

The software menu within the Dräger X-am 7000 was designed in partnership with our customers making it simple and easy to use. With the help of Dräger CC-Vision software, up to five

different detection applications can be saved within the instrument. By doing so, the use of different instrument configurations can be set for that specific application. During operation, a simple change between these set parameters can be done via the instrument's menu.

### DATA MANAGEMENT

An integrated data logger logs up to 3000 sets of values – that equals 100 hours when recording one set per minute. The data can then be transferred to and evaluated on a PC using an infrared interface together with the Dräger GasVision software package.

#### DrägerSensors

Space for up to 5 sensors, 3 electrochemical and 2 catalytic bead or infrared sensors or a photo ionization detector (PID).

#### Alarm functions

360° visible and > 100 dB multi-tone audible alarm.

#### Robust enclosure

Rugged, water-tight with a standard integrated rubber boot.

#### Large display

Clearly structured, scratch resistant display with information in plain text.



ST-67/2006

## ORDER INFORMATION

Description	Order code
Dräger X-am® 7000, basic unit including a calibration adapter, water- and dust-filter	83 17 400
In order to receive a fully operational unit, a power pack and up to 5 sensors have to be ordered. An optional, integrated pump or data logger can also be included.	
<b>Power supply units</b>	
Rechargeable power pack NiMH 4.8 V / 3.0 Ah	83 17 408
Rechargeable power pack NiMH 4.8 V / 6.0 Ah	83 17 454
Alkaline power pack	83 17 550
Alkaline batteries (4 pcs.)	83 17 447
<b>Charging accessories</b>	
Charging module	83 16 487
Power supply for up to eight charging modules	83 15 805
Power supply for one charging module	83 15 635
Power supply for up to two charging modules	83 16 994
Power supply for vehicles	83 12 645
Car mounting kit	83 18 169

## ORDER INFORMATION

Description	Measuring range	Order code
<b>Infrared Sensors</b>		
DrägerSensor Smart IR Ex	0 – 100 % LEL 0 – 100 Vol.-% CH <sub>4</sub>	68 10 460
DrägerSensor Smart IR CO <sub>2</sub>	0 – 5 Vol.-%	68 10 590
DrägerSensor Smart IR CO <sub>2</sub> HC	0 – 100 Vol.-%	68 10 599
<b>Catalytic Bead Sensors</b>		
DrägerSensor Smart CatEx PR	0 – 100 % LEL	68 12 970
DrägerSensor Smart CatEx HC PR	0 – 100 % LEL 0 – 100 Vol.-% CH <sub>4</sub>	68 12 980
DrägerSensor Smart CatEx FR PR	0 – 100 % LEL 0 – 100 Vol.-% CH <sub>4</sub>	68 12 975
<b>PID Sensor</b>		
DrägerSensor Smart PID	0 – 2,000 ppm	83 19 100
<b>Electrochemical Sensors</b>		
DrägerSensor XS 2 CO	0 – 2,000 ppm	68 10 365
DrägerSensor XS EC CO	0 – 2,000 ppm	68 09 105
DrägerSensor XS R CO	0 – 2,000 ppm	68 10 258
DrägerSensor XS EC CO HC	0 – 10,000 ppm	68 09 120
DrägerSensor XS 2 H <sub>2</sub> S	0 – 100 ppm	68 10 370
DrägerSensor XS 2 H <sub>2</sub> S SR	0 – 100 ppm	68 10 575
DrägerSensor XS EC H <sub>2</sub> S 100	0 – 100 ppm	68 09 110
DrägerSensor XS EC H <sub>2</sub> S HC	0 – 1,000 ppm	68 09 180
DrägerSensor XS R H <sub>2</sub> S	0 – 100 ppm	68 10 260
DrägerSensor XS 2 O <sub>2</sub>	0 – 25 Vol.-%	68 10 375
DrägerSensor XS EC O <sub>2</sub> 100	0 – 100 Vol.-%	68 09 550
DrägerSensor XS EC O <sub>2</sub> LS	0 – 25 Vol.-%	68 09 130
DrägerSensor XS R O <sub>2</sub>	0 – 25 Vol.-%	68 10 262
DrägerSensor XS EC Amine	0 – 100 ppm	68 09 545
DrägerSensor XS EC Cl <sub>2</sub>	0 – 20 ppm	68 09 165
DrägerSensor XS EC ClO <sub>2</sub>	0 – 20 ppm	68 11 360
DrägerSensor XS EC CO <sub>2</sub>	0 – 5 Vol.-%	68 09 175
DrägerSensor XS EC COCl <sub>2</sub>	0 – 10 ppm	68 08 582
DrägerSensor XS EC H <sub>2</sub>	0 – 2,000 ppm	68 09 185
DrägerSensor XS EC H <sub>2</sub> HC	0 – 4 Vol.-%	68 11 365
DrägerSensor XS EC HCN	0 – 50 ppm	68 09 150
DrägerSensor XS EC Hydride	0 – 20 ppm	68 09 135
DrägerSensor XS EC NH <sub>3</sub>	0 – 300 ppm	68 09 145
DrägerSensor XS EC NO	0 – 200 ppm	68 09 125
DrägerSensor XS EC NO <sub>2</sub>	0 – 50 ppm	68 09 155
DrägerSensor XS EC Odorant	0 – 40 ppm	68 09 200
DrägerSensor XS EC OV	0 – 200 ppm	68 09 115
DrägerSensor XS EC OV-A	0 – 100 ppm	68 09 522
DrägerSensor XS EC PH <sub>3</sub> HC	0 – 1,000 ppm	68 09 535
DrägerSensor XS EC SO <sub>2</sub>	0 – 100 ppm	68 09 160
<b>Calibration and Communication Accessories</b>		
Calibration adapter		83 17 656
Sensor extension cable for the calibration with vapors		83 17 970
Dräger X-am® 7000 E-Cal Module		83 17 705
Dräger Bump Test Station for Dräger X-am® 7000 Complete with one test gas cylinder 58 L (gas and concentration variable)		83 19 072
Dräger Bump Test Station for Dräger X-am® 7000, not including gas cylinder		83 18 909
Printer Set for Dräger Bump Test Station Dräger X-am® 7000 Consisting of: Dräger Bump Test Station, Dräger Mobile Printer, single charger, rechargeable NiMH batteries, USB connection cable, positioning aid, Dräger CC-Vision (not including gas cylinder)		83 21 009
Printer Set for Dräger Bump Test Station Dräger X-am® 7000 (same contents as 83 21 009). Complete with one test gas cylinder 58L (gas and concentration variable)		83 21 020
Dräger GasVision		83 14 034
Dräger CC-Vision		Freeware

**Dräger X-am® 7000:**

Leak search made easy through the generation of a tracking sound.

**Dräger X-am® 7000:**

High-performance pump simplifies confined space entry.

## TECHNICAL DATA

Dimensions (W × H × D)	150 × 140 × 75 mm; 5.9 × 5.6 × 3 in.	
Weight	Instrument	600 g; 21 oz.
	Rechargeable battery	490 g; 17 oz. (3.0 Ah) 730 g; 26 oz. (6.0 Ah)
Ambient conditions	Temperature	- 20 to + 55 °C, short-term - 40 to + 60 °C - 5 to + 105 °F, short-term - 40 to + 130 °F
	Pressure	700 to 1300 hPa
	Humidity	10 to 95 % r.h.
Ingress protection	IP 67	
Battery life	NiMH (4.8 V / 3.0 Ah)	> 9 hours
	NiMH (4.8 V / 6.0 Ah)	> 20 hours
	Alkaline	> 20 hours
Alarms	Visual 360° flashing LEDs, audible alarm (> 100 dB at 30 cm or 1 ft.)	
Charging time	3.5 to 7 hours, depending on battery type	
Pump mode	Maximum hose length of 45 m; 150 ft.	
Approvals	ATEX	II 2G Ex d ia IIC T4 Gb - 20 ≤ Ta ≤ + 60 °C (NiMH) - 20 ≤ Ta ≤ + 40 °C (Alkaline) I M2 Ex d ia I Mb BVS 03 ATEX E 371 X Measurement performance certificate according to: EN 50271:2001 EN 60079-29-1 (for the CatEx sensors from methane to nonane and infrared sensors) EN 45544-1 + 2 (CO, H <sub>2</sub> S, CO <sub>2</sub> ) EN 50101 (O <sub>2</sub> )
		Marine Equipment Directive 96/98/EC
		Class I, Div 1, Group A, B, C, D Temp. code T4 - 20 ≤ Ta ≤ + 60 °C (NiMH) - 20 ≤ Ta ≤ + 40 °C (Alkaline)
		Class I, Div 1, Group A, B, C, D Temp. code T4 - 20 ≤ Ta ≤ + 60 °C (NiMH) - 20 ≤ Ta ≤ + 40 °C (Alkaline)
		Ex d ia IIC T4 Gb - 20 ≤ Ta ≤ + 60 °C (NiMH) - 20 ≤ Ta ≤ + 40 °C (Alkaline) Ex d ia I Mb
		Electromagnetic compatibility (directive 2004/108/EG)

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