

Dräger X-am[®] 7000 Multi-Gas Detection

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.

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.



Benefits

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 reliable 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

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. A specially designed rubber boot protects the instrument against damage even from a drop of 1.5 m or 5 ft.

Built for longevity

The completely new design of the rechargeable battery pack with intelligent chargingmanagement 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 5 years. If, over time, a sensor exchange is necessary, the modular approach of the instrument allows for this in a few simple steps.

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.

Benefits

Integrated pump

A built-in high-performance pump draws in the gas to be measured through a hose of up to 45 m length. The pump is continuously monitored for blockages.

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.

System components



D-12175-2010



D-317-28-2011



ST-1540-2007



D-2105-2011

DrägerSensor XS

DrägerSensors XS are ahead of the field thanks to their high reliability and warranty periods of up to 5 years. Dräger's smart technology allows simple sensor installation and switching using the plug-and-play technology.

Dräger Catalytic Ex-Sensors

Multiple gases at the same time: The DrägerSensor Cat Ex measures combustible gases and vapors in the air.

PID sensors

Be on the safe side: Many explosive hazardous substances are toxic for humans, at levels markedly below the LEL (Lower Explosive Limit) and cannot be detected at these levels by using only catalytic sensors. Reliable detection of such substances in the ppm range is accomplished using photoionization detectors (PIDs).

Dräger Infrared Sensors

Compact and powerful: The durable Dräger infrared sensors work very accurately and precisely, even in oxygen-free atmospheres and they also have an excellent cost of ownership.

System components



ST-740-2006

Dräger Bump Test Station

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

Accessories



ST-15003-2008

Rechargeable power pack NiMH



ST-4705-2005

Alkaline power pack (without alkaline batteries)

Accessories

ST-14990-2008



Charging module

ST-15006-2008



Leather carrying case

D-12287-2009



Power Supply

For up to eight charging modules

ST-14354-2008



Car mounting kit

Related Products

ST-9466-2007



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 O₂ and harmful concentrations of toxic gases, organic vapors, Odorant and Amine.

D-27784-2009



Dräger X-am® 5600

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.

Technical Data

| | | | |
|------------------------|---|---|--|
| Dimensions (W x H x D) | 150 x 140 x 75 mm; 5.9 x 5.6 x 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 ₂ S, CO ₂) EN 50101 (O ₂) | |
| | | MED | Marine Equipment Directive 96/98/EC |
| | | UL | Class I, Div 1, Group A, B, C, D Temp. code T4 - 20 ≤ Ta ≤ + 60 °C (NiMH) - 20 ≤ Ta ≤ + 40 °C (Alkaline) |
| | | CSA | Class I, Div 1, Group A, B, C, D Temp. code T4 - 20 ≤ Ta ≤ + 60 °C (NiMH) - 20 ≤ Ta ≤ + 40 °C (Alkaline) |
| | | IECEX | Ex d ia IIC T4 Gb - 20 ≤ Ta ≤ + 60 °C (NiMH) - 20 ≤ Ta ≤ + 40 °C (Alkaline) Ex d ia I Mb |
| | | CE-mark | Electromagnetic compatibility (directive 2004/108/EG) |

Ordering 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. | |

Ordering Information

Power supply units

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

Charging accessories

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

| Description | Measuring range | Order code |
|--|---|------------|
| Infrared Sensors | | |
| DrägerSensor Smart IR Ex | 0 – 100 %LEL 0 – 100 Vol.-% CH ₄ | 68 10 460 |
| DrägerSensor Smart IR CO ₂ | 0 – 5 Vol.-% | 68 10 590 |
| DrägerSensor Smart IR CO ₂ HC | 0 – 100 Vol.-% | 68 10 599 |
| Catalytic Bead Sensors | | |
| DrägerSensor Smart CatEx PR | 0 – 100 % LEL | 68 12 970 |
| DrägerSensor Smart CatEx HC PR | 0 – 100 % LEL 0 – 100 Vol.-% CH ₄ | 68 12 980 |
| DrägerSensor Smart CatEx FR PR | 0 – 100 % LEL 0 – 100 Vol.-% CH ₄ | 68 12 975 |
| PID Sensor | | |
| DrägerSensor Smart PID | 0 – 2,000 ppm | 83 19 100 |
| Electrochemical Sensors | | |
| 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 ₂ S | 0 – 100 ppm | 68 10 370 |
| DrägerSensor XS 2 H ₂ S SR | 0 – 100 ppm | 68 10 575 |
| DrägerSensor XS EC H ₂ S 100 | 0 – 100 ppm | 68 09 110 |
| DrägerSensor XS EC H ₂ S HC | 0 – 1,000 ppm | 68 09 180 |
| DrägerSensor XS R H ₂ S | 0 – 100 ppm | 68 10 260 |
| DrägerSensor XS 2 O ₂ | 0 – 25 Vol.-% | 68 10 375 |
| DrägerSensor XS EC O ₂ 100 | 0 – 100 Vol.-% | 68 09 550 |
| DrägerSensor XS EC O ₂ LS | 0 – 25 Vol.-% | 68 09 130 |
| DrägerSensor XS R O ₂ | 0 – 25 Vol.-% | 68 10 262 |
| DrägerSensor XS EC Amine | 0 – 100 ppm | 68 09 545 |
| DrägerSensor XS EC Cl ₂ | 0 – 20 ppm | 68 09 165 |
| DrägerSensor XS EC ClO ₂ | 0 – 20 ppm | 68 11 360 |
| DrägerSensor XS EC CO ₂ | 0 – 5 Vol.-% | 68 09 175 |
| DrägerSensor XS EC COCl ₄ | 0 – 10 ppm | 68 08 582 |
| DrägerSensor XS EC H ₂ | 0 – 2,000 ppm | 68 09 185 |
| DrägerSensor XS EC H ₂ HC | 0 – 4 Vol.-% | 68 11 365 |
| DrägerSensor XS EC HCN | 0 – 50 ppm | 68 09 150 |

Ordering Information

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|---|---------------|-----------|
| DrägerSensor XS EC Hydride | 0 – 20 ppm | 68 09 135 |
| DrägerSensor XS EC NH ₃ | 0 – 300 ppm | 68 09 145 |
| DrägerSensor XS EC NO | 0 – 200 ppm | 68 09 125 |
| DrägerSensor XS EC NO ₂ | 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 ₃ HC | 0 – 1,000 ppm | 68 09 535 |
| DrägerSensor XS EC SO ₂ | 0 – 100 ppm | 68 09 160 |
| Calibration and Communication Accessories | | |
| 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 | | 83 19 072 |
| Complete with one test gas cylinder 58 L (gas and concentration variable) | | |
| 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 | | 83 21 009 |
| 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) | | |
| 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 |

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