



**THORNE &  
DERRICK  
INTERNATIONAL**

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**Dräger**

## Dräger X-am 2000

The Dräger X-am 2000 is one of a new generation of gas detectors which have been specially designed for personal monitoring. The 1- to 4-gas detector reliably measures combustible gases and vapors, as well as O<sub>2</sub>, CO and H<sub>2</sub>S. Its ergonomic design, mobile phone dimensions and low weight make it the perfect companion in your daily work. Reliable measurement technology, long sensor life and easy operation guarantee maximum safety at extremely low cost of ownership.



### AN ERGONOMIC INSTRUMENT THE SIZE OF A MOBILE PHONE

The instrument's low weight and mobile phone size – unique in today's market – guarantee users a high level of comfort and convenience. By design, the instrument can be used intuitively thanks to the practical two-button control panel and straightforward menu guidance system.

### VAPOR-SENSITIVE EX MEASUREMENT

For improved safety when facing unknown hazards: the catalytic Ex sensor, calibrated to methane, not only responds quickly to explosive gases, but also offers a high level of sensitivity to combustible organic vapors, thus providing dependable warnings in the event of explosive hazards.

### LONG-LIFE ELECTROCHEMICAL SENSORS

DrägerSensors® stand for innovative technology at the highest level. The Dräger X-am 2000 features the latest series of powerful electrochemical DrägerSensors® from the miniaturized XXS generation, which are warranted for a period of three years.

### ROBUST AND WATER-TIGHT

The Dräger X-am 2000 is tough: water- and dust-resistant to IP 67, the instrument remains fully functional and ready for use even after being dropped in water. The integrated rubber protection and shock-proof sensors ensure additional resistance to impact and vibration. Furthermore, the Dräger X-am 2000 is able to withstand electromagnetic interference.

### GAS INLETS ON TWO SURFACES

Twice as reliable: the functional design ensures that gas can enter the instrument from the top and the front, so even if the Dräger X-am 2000 is accidentally put in a jacket pocket, it will still provide a reliable warning against gas hazards.

### EXTERNAL PUMP

An optional external pump with up to 20 meters of hose can be used as a solution for applications such as confined space entry from tanks, pipelines, etc. By placing the instrument cradle, the pump automatically starts. The change between diffusion and pump operation is quick and easy without any need for tools or additional steps.



**Dräger X-am 2000:**  
Robust 1- to 4-gas detector  
for personal monitoring

### FLEXIBLE POWER SUPPLY

The Dräger X-am 2000 can be used with either the standard alkaline or optional NIMH batteries. In addition, it can be fitted with a T4 battery which can be recharged while still inside the instrument. Charging can take place in the workshop or in a vehicle, to suit your needs.

### INTELLIGENT DATA MANAGEMENT

Everything's under control: the Dräger X-am 2000 is equipped as standard with a data logger. The data can be transmitted via infrared interface to a PC and analyzed using the Dräger GasVision® software.

### OPTIMUM SOLUTIONS FOR FUNCTION TESTS AND ADJUSTMENTS

Simple, fast and professional: from a function test to complete documentation, users have a range of practical solutions to choose from for total peace of mind. The Dräger E-Cal automatic test and calibration station and the Dräger Bump Test Station are ideal complements to the instrument, saving time and minimizing your workload.

### REMOTE SAMPLING

Confined space entry sampling can easily be performed using the optional motorized sample pump. The pump is capable of drawing a sample up to 66 ft. (20m) from the point of entry. Operating on 3 "AA" alkaline batteries, the pump has a total run time of over 30 hours.

For further information, visit:  
[www.draeger.com](http://www.draeger.com)

**Crocodile clip:**  
Fastens securely to clothing.

**Visual alarm:**  
360° alarm.

**DrägerSensors:**  
Fast, accurate and durable.

**Robust design:**  
Water- and dust-proof as per IP 67.

**Large display:**  
All readings at one glance.



**Dräger X-am 2000 standard instrument**

|                                                                                                        |           |
|--------------------------------------------------------------------------------------------------------|-----------|
| Dräger X-am 2000 Ex, alkaline                                                                          | 83 18 750 |
| Dräger X-am 2000 Ex, CO/H <sub>2</sub> S, alkaline                                                     | 83 18 696 |
| Dräger X-am 2000 Ex, O <sub>2</sub> /CO, alkaline                                                      | 83 18 697 |
| Dräger X-am 2000 Ex, O <sub>2</sub> /H <sub>2</sub> S, alkaline                                        | 83 18 698 |
| Dräger X-am 2000 Ex, O <sub>2</sub> /CO/H <sub>2</sub> S, alkaline                                     | 83 18 699 |
| Dräger X-am 2000 Ex, O <sub>2</sub> , alkaline                                                         | 83 18 770 |
| Dräger X-am 2000 Ex, H <sub>2</sub> S, alkaline                                                        | 83 18 780 |
| Dräger X-am 2000 Ex, CO, alkaline                                                                      | 83 18 790 |
| Dräger X-am 2000 Ex, O <sub>2</sub> , CO, alkaline                                                     | 83 18 880 |
| Dräger X-am 2000 Ex, O <sub>2</sub> , H <sub>2</sub> S, alkaline                                       | 83 18 890 |
| Dräger X-am 2000 Ex, O <sub>2</sub> , CO, H <sub>2</sub> S, alkaline                                   | 83 18 910 |
| Dräger X-am 2000 CH <sub>4</sub> , alkaline battery, MSHA approved                                     | 45 43 787 |
| Dräger X-am 2000 CH <sub>4</sub> /O <sub>2</sub> , alkaline battery, MSHA approved                     | 45 43 779 |
| Dräger X-am 2000 CH <sub>4</sub> /CO, alkaline battery, MSHA approved                                  | 45 43 788 |
| Dräger X-am 2000 CH <sub>4</sub> /O <sub>2</sub> /CO, alkaline battery, MSHA approved                  | 45 43 778 |
| Dräger X-am 2000 CH <sub>4</sub> /O <sub>2</sub> /H <sub>2</sub> S, alkaline battery, MSHA approved    | 45 43 777 |
| Dräger X-am 2000 CH <sub>4</sub> /O <sub>2</sub> /CO/H <sub>2</sub> S, alkaline battery, MSHA approved | 45 43 776 |
| Other configurations available, contact Customer Service                                               |           |

**Power supply units**

|                                                                   |           |
|-------------------------------------------------------------------|-----------|
| NiMH power supply unit T4                                         | 83 18 704 |
| NiMH power supply unit T4 with charger module and power pack      | 83 18 785 |
| Alkaline power supply unit T3/T4 (without alkaline batteries)     | 83 18 703 |
| Alkaline battery for alkaline power supply 83 18 703 (2 required) | 45 43 708 |

**Pump Accessories**

|                                                                                                                                                          |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Remote Sample Pump, Dräger X-am 1/2/5000                                                                                                                 | 83 19 400 |
| Carry Case for external pump                                                                                                                             | 83 19 385 |
| Confined Space Entry Set for Dräger X-am 1/2/5000 Pump, includes: external pump, molded carry case, 15 ft. (5m) Tygon® tubing, float probe, spare filter | 45 43 760 |
| 12" clear plastic Sample Probe                                                                                                                           | 45 11 262 |

**Chargers**

|                                                                           |           |
|---------------------------------------------------------------------------|-----------|
| Charger module                                                            | 83 18 639 |
| Power pack with connection cable (worldwide) for up to 20 charger modules | 83 15 805 |
| Plug-in power pack (worldwide) for up to 5 charge modules                 | 83 16 994 |
| Plug-in power pack (worldwide) for up to 2 charge modules                 | 83 15 635 |
| 12V/24V vehicle connection cable for charger module                       | 45 30 057 |
| Vehicle holder for one charger module                                     | 83 18 779 |

**Accessories for recording of measured values and configuration**

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

**Calibration accessories**

|                                                                                                                |           |
|----------------------------------------------------------------------------------------------------------------|-----------|
| Calibration cradle                                                                                             | 83 18 752 |
| Dräger Bump Test Station                                                                                       | 83 19 131 |
| Printer Set for X-am 1/2/5000 Bump Test Station                                                                | 83 21 011 |
| Dräger E-Cal module                                                                                            | 83 18 754 |
| Mixed gas cylinder, 2.5 vol.-% CH <sub>4</sub> , 100 ppm CO; 25 ppm H <sub>2</sub> S, 17 vol.-% O <sub>2</sub> | 45 94 655 |

**Other accessories**

|                 |           |
|-----------------|-----------|
| Instrument case | 45 43 755 |
|-----------------|-----------|



**Dräger X-am 2000**  
Robust and water-tight



**Dräger X-am 2000**  
Compact and ergonomic



**Dräger X-am 1/2/5000**  
Remote Sample Pump

## TECHNICAL DATA

|                        |                                                                                                     |                                                            |
|------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Dimensions (W x H x D) | 1.85" x 5.08" x 1.22" (47 x 129 x 31 mm)                                                            |                                                            |
| Weight                 | Approximately 7.8 oz (220 g)                                                                        |                                                            |
| Ambient conditions     | Temperature -4 to +122 °F (-20 to +50 °C)                                                           |                                                            |
| Pressure               | 700 to 1300 mbar (20.7 to 38.4 inch Hg)                                                             |                                                            |
| Humidity               | 10 to 95 % r.h.                                                                                     |                                                            |
| <b>Sensor</b>          | <b>Measurement range</b>                                                                            | <b>Response time T50 [sec.]</b>                            |
| Ex                     | 0-100 % LEL or 0-5 vol.-%                                                                           | 8                                                          |
| O <sub>2</sub>         | 0-25 vol.-%                                                                                         | 6                                                          |
| CO                     | 0-2000 ppm                                                                                          | 6                                                          |
| H <sub>2</sub> S       | 0-200 ppm                                                                                           | 6                                                          |
| IP protection class    | Instrument and sensor block, IP 67                                                                  |                                                            |
| Alarms                 | Visual 180°                                                                                         |                                                            |
|                        | Audible Multi-tone >90 dB at 30 cm (1 ft.)                                                          |                                                            |
|                        | Vibration                                                                                           |                                                            |
| Operating times        | Alkaline > 12 hours                                                                                 |                                                            |
|                        | T4 battery pack > 12 hours                                                                          |                                                            |
| Charging times         | < 4 hours                                                                                           |                                                            |
| Data logger            | Can be read out via IR > 1000 hours with 4 sensors and a recording interval of 1 reading per minute |                                                            |
| Approvals              | ATEX                                                                                                | II 2G EEx ia d IIC T4/T3<br>I M2 EEx ia d I                |
|                        | UL                                                                                                  | Class I Div. 1 Group A,B,C,D - Cl. II E,F,G, T.-Code T4/T3 |
|                        | MSHA                                                                                                | Methane-air mixtures only                                  |
|                        | CSA                                                                                                 | Class I Div. 1 Group A,B,C,D, T.-Code T4/T3                |
|                        | IECEX                                                                                               | Ex ia d I/IIC T4/T3                                        |
|                        | CE-mark                                                                                             | Electromagnetic compatibility (directive 89/336/EEC)       |
| Warranty               | 3 years on monitor and sensors                                                                      |                                                            |
|                        | 2 years on optional T4 NiMH battery pack                                                            |                                                            |



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