

Dräger Pac® 7000

Small and robust, ergonomic and intuitive, economic and powerful – the Dräger Pac 7000 is tailor-made for personal monitoring at the workplace. Featuring the latest sensor technology, this innovative single gas detector is equipped with a wide range of functions and is suitable for many different applications in day-to-day industrial settings.



ST-2507-2005

The Dräger Pac 7000 detector is an impressive instrument, offering a high level of reliability and rapid warning against harmful concentrations of hydrogen sulfide, oxygen, carbon monoxide, carbon dioxide, sulfur dioxide, chlorine, hydrogen cyanide, ammonia, nitrogen dioxide, nitrogen monoxide, phosphine, or organic vapors.

SMALL AND ROBUST

Dräger Pac 7000's impact-resistant housing features a protective rubber coating and is impervious to corrosive chemicals. Dräger Pac 7000 meets the requirements of IP 65 to ensure operation even when projected with water. The protection against electromagnetic effects has been optimized. A crocodile clip made of stainless steel is used to fasten the instrument securely to the wearer's clothing and can be rotated to allow for individual preferences. The two alarm lights are located on the corners of the instrument for 360° visibility.

NO LIFETIME LIMITATION

The Dräger Pac 7000 features an unlimited lifetime and has been designed to ensure long-term operation. The battery and the sensor can be easily replaced on-site and without any additional equipment. Also, the dust and water filter on the front of the

instrument can be replaced when clogged with dirt or mud. Unique to Dräger, an optional 5-year warranty (filters and batteries need to be replaced at regular intervals) is available for the hydrogen sulfide, oxygen and carbon monoxide monitors.

NEW SENSOR TECHNOLOGY 'EN MINIATURE'

Utilizing long-life, state-of-the-art Dräger XXS Sensor technology, the innovative Dräger Pac 7000 boasts both speed and reliability in regards to the measurement results. The small size of the sensor supports the application-oriented design of the instrument. Gas hazards that may occur are displayed immediately thanks to the very short diffusion paths inside the instrument and the extremely quick electrochemical reaction times achieved by the Dräger XXS Sensors.

SAFETY FIRST

Personnel safety is always the first priority. The sensor is positioned inside the housing such as to allow gas to reach it from above and from the front. This position also minimizes the danger of a gas inlet being accidentally covered by clothing.

ALARM / WARNING FUNCTION

Visual, vibrating and audible alarms are

ST-1758-2005



Dräger Pac 7000
Increased functionality
and no lifetime limitation.

triggered when the two configurable alarm thresholds are exceeded or in the case of oxygen, when the levels fall below the set value. For optimum perception, a two-tone alarm is used. Furthermore, Dräger Pac 7000 features an adjustable TWA (time-weighted average) alarm and STEL (short-term exposure level) alarm. A warning is also given to indicate low battery levels or in the event of a device error.

DATA LOGGER

Dräger Pac 7000 features a data logger in which all concentrations and events are stored together with their respective dates and times. The intervals are variable and can be adjusted by the user. If a one-minute interval is set, the data logger has a capacity of about five days. The stored data can be downloaded via a PC that has Dräger Pac Vision or Dräger CC-Vision software installed and edited using, for example, Microsoft® EXCEL® software. Alternatively, complete data evaluation is possible when the Dräger GasVision software is used.

BUMP TEST MODE

Work safety in industrial settings relies on gas measurement equipment that functions properly. This is the reason why national regulations require regular function or bump tests to test the instrument's functionality using a known gas concentration. Dräger Pac 7000 is designed to make bump testing easier by automating the bump test process when used in conjunction with the Dräger Bump Test Station.

The bump test mode is integrated within the instrument and can be individually configured to match specific safety regulations. For example, the instrument can

inform the user when a function test is required and, if after a set period time, the function test has still not been performed; the instrument will automatically shut off. Additionally, when used with the Dräger Bump Test Station, Dräger Pac 7000 can be automatically calibrated after a failed bump test. This ensures the proper functioning of safety equipment.

CALIBRATION AND CONFIGURATION

Dräger Pac 7000 features an integrated menu from which the bump test mode, fresh air calibration and span calibration can be selected. Access to fresh air and span calibration can also be password protected.

The instrument is equipped with an infrared interface and can be linked to a PC via the connecting cradle or the Dräger E-Cal system. Dräger Pac Vision or Dräger CC Vision software can be installed on any PC to configure functions, as well as to calibrate and download the stored data.

DRÄGER PAC 7000 AT A GLANCE

- High performance Dräger XXS Sensors
- Optional 5-year guaranty for hydrogen sulfide, oxygen and carbon monoxide monitors
- Automatic function test with Dräger Bump Test Station
- Optional calibration function after a failed function test
- Adjustable bump test interval
- Unlimited lifetime with simple battery, sensor and filter replacement
- Integrated data logger
- Gas inflow from above and the front
- Adjustable TWA and STEL alarms
- Record of the peak concentration

ORDER INFORMATION

| Description | Measuring Range | Default Alarm Threshold A1/A2 | Resolution | Response Time | Order Code |
|--|-----------------|-------------------------------|------------|---------------|------------|
| Dräger Pac 7000 H ₂ S ¹⁾ | 0 – 100 ppm | 10/20 ppm | 1 ppm | 15 sec. | 83 18 674 |
| Dräger Pac 7000 H ₂ S ²⁾ | 0 – 100 ppm | 10/20 ppm | 1 ppm | 15 sec. | 83 18 971 |
| Dräger Pac 7000 H ₂ S | 0 – 100 ppm | by request | 1 ppm | 15 sec. | 83 18 677 |
| Dräger Pac 7000 H ₂ S Low Concentrations | 0 – 100 ppm | by request | 0.1 ppm | 15 sec. | 83 21 004 |
| Dräger Pac 7000 O ₂ ¹⁾ | 0 – 25 Vol.-% | 19/23 Vol.-% | 0.1 Vol.-% | 10 sec. | 83 18 675 |
| Dräger Pac 7000 O ₂ ²⁾ | 0 – 25 Vol.-% | 19.5/23.5 Vol.-% | 0.1 Vol.-% | 10 sec. | 83 18 972 |
| Dräger Pac 7000 O ₂ | 0 – 25 Vol.-% | by request | 0.1 Vol.-% | 10 sec. | 83 18 678 |
| Dräger Pac 7000 CO ¹⁾ | 0 – 1999 ppm | 30/60 ppm | 1 ppm | 15 sec. | 83 18 673 |
| Dräger Pac 7000 CO ²⁾ | 0 – 1999 ppm | 35/50 ppm | 1 ppm | 15 sec. | 83 18 970 |
| Dräger Pac 7000 CO | 0 – 1999 ppm | by request | 1 ppm | 15 sec. | 83 18 676 |
| Dräger Pac 7000 CO ₂ | 0 – 5 Vol.-% | by request | 0.1 Vol.-% | 30 sec. | 83 18 975 |
| Dräger Pac 7000 SO ₂ | 0 – 100 ppm | by request | 1 ppm | 15 sec. | 83 18 976 |
| Dräger Pac 7000 Cl ₂ | 0 – 20 ppm | by request | 0.05 ppm | 30 sec. | 83 18 978 |
| Dräger Pac 7000 HCN | 0 – 50 ppm | by request | 0.1 ppm | 15 sec. | 83 18 973 |
| Dräger Pac 7000 NH ₃ | 0 – 300 ppm | by request | 1 ppm | 20 sec. | 83 18 979 |
| Dräger Pac 7000 NO ₂ | 0 – 50 ppm | by request | 0.1 ppm | 15 sec. | 83 18 977 |
| Dräger Pac 7000 NO | 0 – 200 ppm | by request | 1 ppm | 15 sec. | 83 21 263 |
| Dräger Pac 7000 PH ₃ | 0 – 20 ppm | by request | 0.01 ppm | 10 sec. | 83 18 974 |
| Dräger Pac 7000 OV | 0 – 200 ppm | by request | 0.5 ppm | 100 sec. | 83 21 006 |
| Dräger Pac 7000 OV-A | 0 – 200 ppm | by request | 1 ppm | 100 sec. | 83 21 007 |

5 Year Guaranty (not including battery)

| | | | | | |
|-------------------------------------|---------------|------------|------------|---------|-----------|
| Dräger Pac 7000 5Y H ₂ S | 0 – 100 ppm | by request | 1 ppm | 15 sec. | 83 21 032 |
| Dräger Pac 7000 5Y O ₂ | 0 – 25 Vol.-% | by request | 0.1 Vol.-% | 10 sec. | 83 21 033 |
| Dräger Pac 7000 5Y CO | 0 – 1999 ppm | by request | 1 ppm | 15 sec. | 83 21 031 |

| | |
|-----------------------|-----------|
| Leather carrying case | 45 43 822 |
|-----------------------|-----------|

Communication Accessories

| | |
|--|-----------|
| Dräger Gas Vision | 83 14 034 |
| Dräger CC-Vision | 64 08 515 |
| Communication Module, complete with USB cable and Dräger Pac Vision software | 83 18 587 |

Calibration Accessories

| | |
|---|-----------|
| Calibration adapter | 83 18 588 |
| Dräger Pac Module for Dräger E-Cal calibration system | 83 18 589 |
| Dräger Bump Test Station for Dräger Pac 7000, not including gas cylinder | 83 17 410 |
| Dräger Bump Test Station for Dräger Pac 7000 Complete with one test gas cylinder 58L (gas and concentration variable) | 83 18 586 |
| Dräger Bump Test Station for Dräger Pac 7000 The station for an automatic bump test upon placing the Dräger Pac 7000 in the cradle, not including gas cylinder | 83 19 559 |
| Dräger Bump Test Station for Dräger Pac 7000 The station for an automatic bump test upon placing the Dräger Pac 7000 in the cradle, complete with one test gas cylinder 58L (gas and concentration variable) | 83 21 008 |
| Printer Set for Dräger Bump Test Station Consisting of: Dräger Mobile Printer, single charger, rechargeable NiMH batteries, USB connection cable, positioning aid, Dräger CC-Vision standard | 83 21 010 |

Replacement Parts

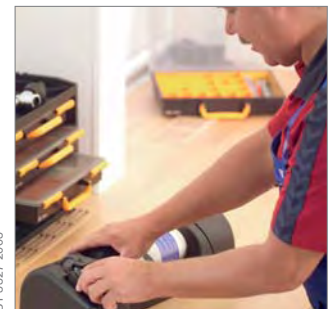
| | |
|-----------------------|-----------|
| Lithium battery | 45 43 808 |
| Water and dust filter | 45 43 836 |

1) Default configuration Europe
2) Default configuration North America



ST-560B-2004

Dräger Pac 7000
Small and robust personal monitor.



ST-5527-2005

Dräger Pac 7000
Quick and reliable function tests.

TECHNICAL DATA

| | |
|------------------------|--|
| Dimensions (W x H x D) | 84 x 64 x 25 mm; 3.3 x 2.5 x 1.0 in. |
| Weight | 120 g; 3.8 oz. |
| Ambient conditions | Temperature ¹⁾ -30 – 50 °C; -20 – 120 °F Pressure 700 – 1300 hPa Humidity 10 – 90 % r. h. |
| Ingress protection | IP 65 |
| Display | Language-free LCD display, continuous indication of concentration, peak concentration, TWA- and STEL-concentration, operating time, notice and alarm functions |
| Typical battery life | 5500 hours (O ₂ version: 2700 hours) |
| Acoustic alarm | Two-tone-alarm, typical > 90 dB at a distance of 30 cm |
| Data logger | Storage of concentration und events with date and time (120 hours @ 1 data set per minute) |
| Approvals | CE-Sign (89/336/EEC, 94/9/EC) ATEX II 1 G EEx ia IIC, T4 I M 1 EEx ia I, T 4 UL Class I, II, Div 1, Group A, B, C, D, E, F, G, Temp. Code T4 cUL Class I, II, Div 1, Group A, B, C, D, E, F, G, Temp. Code T4 IECEX EEx ia IIC, T4 Marine Equipment Directive 96/98/EC Measurement Performance Certificate (acc. to ATEX) EN 45544 (CO, H ₂ S), EN 50104 (O ₂), EN 50271 |

1) Dräger Pac 7000 CO₂ -20 – 40 °C (-4 – 104 °F), Dräger Pac 7000 HCN -20 – 50 °C (-4 – 122 °F), Dräger Pac 7000 PH₃ -20 – 50 °C (-4 – 122 °F)

Distributed by:
AFC International Inc
PO Box 894
DeMotte, IN 46310
800.952.3293 • 219.987.6825
fax 219.987.6826
sales@afcintl.com • www.afcintl.com

HEADQUARTERS:
Dräger Safety AG & Co. KGaA
Revalstrasse 1
23560 Lübeck, Germany

www.draeger.com

SUBSIDIARIES:

AUSTRALIA
Draeger Safety Pacific Pty. Ltd.
Axxess Corporate Park
Unit 99, 45 Gilby Road
Mt. Waverley. Vic 3149
Tel +61 3 92 65 50 00
Fax +61 3 92 65 50 95

CANADA
Draeger Canada Ltd.
7555 Danbro Crescent
Mississauga,
Ontario L5N 6P9
Tel +1 905 821 89 88
Fax +1 905 821 25 65

P. R. CHINA
Beijing Fortune Draeger
Safety Equipment Co., Ltd.
Yu An Lu A 22, B Area
Beijing Tianzhu Airport
Industrial Zone
Houshayu Shunyi District
Beijing 101300
Tel +86 10 80 49 80 00
Fax +86 10 80 49 80-05

FRANCE
Dräger Safety France SAS
3c route de la Fédération,
BP 80141
67025 Strasbourg Cedex 5
Tel +33 3 88 40 59 29
Fax +33 3 88 40 76 67

USA
Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275
Tel +1 412 787 83 83
Fax +1 412 787 22 07

MEXICO
Draeger Safety S.A. de C.V.
Av. Peñuelas No. 5
Bodega No. 37
Fraccionamiento Industrial
San Pedrito
Querétaro, Qro México
Tel +52 442 246-1113
Fax +52 442 246-1114

NETHERLANDS
Dräger Safety Nederland B.V.
Edisonstraat 53
2700 AH Zoetermeer
Tel +31 79 344 46 66
Fax +31 79 344 47 90

REP. OF SOUTH AFRICA
Dräger South Africa (Pty) Ltd.
P.O.Box 68601
Bryanston 2021
Tel +27 11 465 99 59
Fax +27 11 465 69 53

SINGAPORE
Draeger Safety Asia Pte. Ltd.
67 Ayer Rajah Crescent # 06 03
139950 Singapore
Tel +65 68 72 92 88
Fax +65 67 73 20 33

SPAIN
Draeger Safety Hispania S.A.
Calle Xaudaró 5
28034 Madrid
Tel +34 91 728 34 00
Fax +34 91 729 48 99

UNITED KINGDOM
Draeger Safety UK Ltd.
Blyth Riverside Business Park
Blyth, Northumberland
NE24 4RG
Tel +44 1670 352 891
Fax +44 1670 356 266