

## Dräger X-zone® 5000 Portable gas detection system for flexible area monitoring

State-of-the-art area monitoring – the Dräger X-zone 5000, in combination with the Dräger X-am 5000 or 5600 gas detection instruments, can be used for the measurement of up to six gases and extends the portable gas detection technology to a unique system with many applications.



### INNOVATIVE AREA MONITORING

The Dräger X-zone 5000 transforms the Dräger personal gas detection instruments X-am 5000/5600 into innovative area monitoring devices for a wide range of applications. A patented combination for increased safety – in addition to the personal air monitors carried on the body, these area monitors are positioned where gas hazards are expected.

### CLEAR WARNING

Even from a distance, the illuminated green LED ring indicates that the air is free of toxic and combustible gases. Upon detection of gas hazards, the LED color changes from green to red, thus providing a clear visual warning that gas is present. Additionally, a loud and highly audible evacuation alarm is emitted. The Dräger X-zone 5000 gas entry is arranged that the gas can diffuse into the Dräger X-am 5000/5600 from all sides.

### WIRELESS FENCELINE

Up to 25 Dräger X-zone 5000 can be automatically interconnected to form a wireless fence line. The interconnection of the area monitoring devices allows for rapid establishment of safety networks for larger areas. A Dräger X-zone 5000 detecting a gas alarm transmits the alarm signal to all interconnected units. A red flashing master alarm in the mother unit detecting gas contrasts with red/green flashing alarms of the connected daughter units providing simple recognition of alarm status and the actual location of the hazard.

### AREA MONITORING – EVEN WITH A PUMP

An optional integrated pump allows for continuous monitoring of areas during pump operation. This provides continuous monitoring of confined spaces and locations which are difficult to access – from a distance of up to 45 m (150 ft).



Dräger X-zone® 5000  
Front view



Dräger X-zone® 5000  
Back view

## DRÄGER X-ZONE® 5000



### CONTINUOUS OPERATION FOR UP TO 120 HOURS

Two different types of rechargeable batteries enable the Dräger X-zone 5000 to be adapted to a variety of applications: the 12 Ah battery, with a total device weight of only 7 kg (15 lbs.), offers continuous operation for up to 60 hours; and the alternative 24 Ah battery, with a total device weight of 10 kg (22 lbs.) provides up to 120 hours of continuous operation – a complete working week.

### OTHER BENEFITS:

- 360° gas entry
- approval for Ex-zone 0 (with Switch On or Switch Off for Ex-zone 1)
- daily function test and calibration not required after single on-site testing
- individually configurable with the Dräger CC-Vision PC software (e.g. alarm frequency)
- inductive charging station: easy and convenient non-contact charging

### OPTIONAL: DRÄGER SWITCHING STATION X-ZONE SWITCH ON OR SWITCH OFF

The accessory Switch On or Switch Off box provides a cost-effective, fast and easy way of increasing safety during external work in Ex-zone 1. In the event of an alarm, the Switch Off box automatically cuts off the power supply in just seconds, for instance, to a welder. In the case of danger, the Switch On box responds immediately by activating, for instance, a traffic light for access control or ventilation. The corresponding switching station can be easily connected to the Dräger X-zone 5000 via the potential-free alarm contact.



X-zone Switch Off



X-zone Switch On



## TECHNICAL DATA

### Dräger X-zone® 5000

Dimensions (W x H x D)	490 x 300 x 300 mm 20 x 12 x 12 in.	
Weight	7 kg (15 lbs.) (12 Ah battery) 10 kg (22 lbs.) (24 Ah battery)	
Ambient conditions	Temperature -20 to +50°C; -4 to 122 °F Pressure 700 to 1,300 hPa Humidity 10 to 95 % r.h.	
Ingress Protection	IP 67	
Alarm	Visual 360° LED (illuminated ring) Audible 360°; > 108 dB in a distance of 1 m (30 ft.), 120 dB in a distance of 30 cm (1 ft.) Configurable alarm patterns, frequencies and volumes	
Live signal	Green status display (360°), illuminated ring (LED)	
Operating time	Approx. 60 h (12 Ah battery), approx. 120 h (24 Ah battery) Depending on sensor equipment / configuration of the life signal	
Charging time	< 10 h Flexible power supply: External 100 - 240V charger (worldwide) or inductive wireless charger	
Pump operation	Maximum hose length: 45 m (150 ft.)	
Alarm output	Potential-free alarm contact for intrinsically safe circuits (6-pole); < 20 V to 0.25 A (0.15 A constant current); Resisting load	
Radio transmission	Worldwide license-free ISM frequencies Digital radio, robust and interference-free transmission up to 100 m (656 ft.)	
RF approvals	868 MHz (EU, Norway, Switzerland, Turkey, South Africa, Singapore) 915 MHz (USA, Canada, India, Australia) 433 MHz (Russia)	
Approvals	ATEX	I M1 Ex ia I Ma II 1G Ex ia IIC T3 Ga II 2G Ex ia d IIC T4 Gb
	IEC	Ex ia IIC T3/T4
	CSA/US	Class I, zone 0, AEx ia IIC T3 Ga Class I, zone 1, AEx ia d IIC T4 Gb

### X-zone Switch Off/Switch On

	Switch Off	Switch On
Dimensions (W x H x D)	317 x 730 x 325 mm	317 x 730 x 325 mm
Weight	Approx. 20 kg	Approx. 20 kg
Ambient conditions	-20°C to +50°C	-20°C to +50°C
Protection class	IP 54	IP 54
Input voltage	ExCEE 3 phase plug 400 V / 32 A; "yellow" lamp	ExCEE 3 phase plug 400 V / 32 A; "yellow" lamp
Output voltage	ExCEE 3 phase socket 400 V / 32 A; or 0 V / 0 A when the connected Dräger X-zone 5000 indicates an alarm; switching state recognizable by "green" lamp	ExCEE 3 phase socket 400 V / 32 A; or 0 V / 0 A when the connected Dräger X-zone 5000 does not indicate an alarm; switching state recognizable by "red" lamp
Lock alarm	After alarm released by key on emergency stop	After alarm released by acknowledgement key
Approval		
ATEX	II 2G Ex de ia IIC T4 Gb	II 2G Ex de ia IIC T4 Gb
IEC	Ex de ia IIC T4Gb	Ex de ia IIC T4Gb

## ORDER INFORMATION

### Dräger X-zone® 5000 with diffusion cap

	Order-No.
Dräger X-zone 5000 – 868 MHz, 12 Ah battery	83 20 740
Dräger X-zone 5000 – 868 MHz, 24 Ah battery	83 20 741
Dräger X-zone 5000 – 915 MHz, 12 Ah battery	83 20 744
Dräger X-zone 5000 – 915 MHz, 24 Ah battery	83 20 745
Dräger X-zone 5000 – 433 MHz, 12 Ah battery	83 20 104
Dräger X-zone 5000 – 433 MHz, 24 Ah battery	83 20 105

### Dräger X-zone® 5000 with integrated pump, diffusion and pump cap

Dräger X-zone 5000 – 868 MHz, 12 Ah battery	83 20 742
Dräger X-zone 5000 – 868 MHz, 24 Ah battery	83 20 743
Dräger X-zone 5000 – 915 MHz, 12 Ah battery	83 20 746
Dräger X-zone 5000 – 915 MHz, 24 Ah battery	83 20 747
Dräger X-zone 5000 – 433 MHz, 12 Ah battery	83 20 106
Dräger X-zone 5000 – 433 MHz, 24 Ah battery	83 20 107

### Accessories

Gas supply adapter	83 20 108
Alarm damper	83 20 110
Socket, 25 cm or 1 ft. in height	83 20 645

### Charging accessories

Inductive charger	83 22 080
Plug-in charger	83 20 749

### Pump accessories

Float probe with 5 m or 16.4 ft. viton hose	83 18 371
Hose set (consisting of water trap, dust and water filter)	83 21 527
Hose, electronically conductive	11 80 681
Viton hose, solvent-resistant	12 03 150
Tygon hose	83 20 395

### Communication accessories

Dräger CC-Vision	64 08 515
USB DIRA with USB cable	83 17 409

### Optional equipment

Dräger X-zone Switch Off	83 22 260
Dräger X-zone Switch On	83 22 270



D-23831-2009

#### Socket

For measurements of light gases



D-10391-2009

#### Float probe

with 5 m viton hose



D-1571-2010

#### Hose set

consisting of water trap, dust and water filter

### CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA  
Moislinger Allee 53-55  
23558 Lübeck, Germany

www.draeger.com

### P. R. CHINA

Draeger Safety Equipment  
(China) Co., Ltd.  
A22 Yu An Rd, B Area,  
Tianzhu Airport Industrial Zone,  
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 1  
Tel +33 3 88 40 76 76  
Fax +33 3 88 40 76 67

### 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

### REGION ASIA PACIFIC

Draeger Safety Asia Pte Ltd  
67 Ayer Rajah Crescent  
#06-03  
Singapore 139950  
Tel +65 68 72 92 88  
Fax +65 65 12 19 08

### REGION CENTRAL AND SOUTH AMERICA

Dräger Panama S. de R.L.  
Complejo Business Park,  
V tower, 10th floor  
Panama City  
Tel +507 377-9100  
Fax +507 377-9130  
contactcsa@draeger.com

### REGION MIDDLE EAST, AFRICA

Dräger Safety AG & Co. KGaA  
Branch Office  
P.O. Box 505108  
Dubai, United Arab Emirates  
Tel +971 4 4294 600  
Fax +971 4 4294 699  
contactuae@draeger.com

### SPAIN

Dräger 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

### AUSTRALIA

Draeger Safety Pacific Pty. Ltd.  
Axess 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 Safety Canada Ltd.  
7555 Danbro Crescent  
Mississauga, Ontario L5N 6P9  
Tel +1 905 821 8988  
Fax +1 905 821 2565

### USA

Draeger Safety, Inc.  
101 Technology Drive  
Pittsburgh, PA 15275  
Tel +1 412 787 8383  
Fax +1 412 787 2207

### Manufacturer:

Dräger Safety AG & Co. KGaA  
23560 Lübeck, Germany