

# 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).



D-236002-2009

Dräger X-zone® 5000  
Front view



D-23594-2009

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 weight of only 7 kg (15 lbs.), offers continuous operation for up to 60 hours; and the alternative 24 Ah battery, with a total 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) 429 MHz (Japan)
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
	Connection to the alarm contact of a Dräger X-zone 5000	Connection to the alarm contact of a Dräger X-zone 5000
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	II 2G Ex de ia IIC T4 Gb	II 2G Ex de ia IIC T4 Gb

\* Applies only in combination with the Dräger X-am 5000.

## 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 – 429 MHz, 12 Ah battery	83 20 710
Dräger X-zone 5000 – 429 MHz, 24 Ah battery	83 20 711

**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
Dräger X-zone 5000 – 429 MHz, 12 Ah battery	83 20 712
Dräger X-zone 5000 – 429 MHz, 24 Ah battery	83 20 713

**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 20 626
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-23631-2009

**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

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