

Dräger X-zone® 5000

State-of-the-art area monitoring – the Dräger X-Zone 5000, in combination with the Dräger X-am 5000 or X-am 5600 gas detection instruments, can be used for the measurement of one to six gases. This easily transportable, robust and waterproof unit extends mobile gas detection technology to a unique system with many flexible 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 predicted.

CLEAR ALARM – 360°

Even from a distance, the illuminated green LED ring indicates that the air is clean. 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. With the patented 360° alarm amplifier, the acoustic warning is heard with the same volume from all sides. Independent of wind direction – the Dräger X-zone 5000 gas entry is arranged in a way that gas can diffuse to the Dräger X-zone 5000 from all sides.

WIRELESS FENCELINE

Up to 25 Dräger X-zones can be automatically interconnected to form a wireless fence line. This interconnection of the transportable measuring heads allows for the fast securing of larger areas, e.g. pipelines or industrial tanks – even within the scope of industrial shutdowns. In the event of a gas alarm, the device transmits the alarm signal to all units that are part of the fence line which then signal a daughter alarm. The daughter alarm is, in contrast to the red master alarm, displayed green/red by the illuminated LED ring, thus allowing and providing for a fast and easy recognition of the alarm itself as well as of the alarm-triggering device. This ensures an easy and clear evacuation alarm and alerting. Alternatively, the fence line can also be wired.

AREA MONITORING – EVEN WITH PUMP OPERATION

An optional integrated pump allows the continuous monitoring of areas during pump operation. This offers the possibility of continuous monitoring of confined spaces and locations which are difficult to access – from a distance of up to 45 m.



Dräger X-zone 5000
Front view



Dräger X-zone 5000
Back view

DRÄGER X-ZONE 5000



ALARM CONTACT FOR CONNECTION OF EXTERNAL EQUIPMENT

Via the potential-free alarm contact, the Dräger X-zone 5000 device can also be interconnected and operate external equipment such as alarm horns, lamps or traffic lights. Furthermore, the fence line signal together with the alarm contact can be forwarded to a control room – overseeing a wide range of applications.

AVAILABLE FOR USE EVEN IN EX ZONE 0

Unlike personal gas measuring devices, area monitoring devices often stay located well within an explosion hazard area, even in during a gas alarm. It is therefore all the more important that the devices are approved for use in explosion hazard areas, zone 0. The approvals for X-zone 5000 enable the continuous operation of the device in an explosive atmosphere and environment.

CONTINUOUS OPERATION OF UP TO 120 HOURS

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

INDUCTIVE CHARGING TECHNOLOGY

The Dräger X-zone 5000 can be charged in two ways: In the conventional wired manner or via a modern induction charger. For this purpose, the device is simply placed into the charger – thus alleviating the problems encountered with dirty charging contacts etc. Additionally this

non-contact charging possibility also allows maintenance and service to be carried out simultaneously.

CONFIGURABLE TO MEET INDIVIDUAL REQUIREMENTS

With the Dräger CC-Vision PC software, the Dräger X-zone 5000 can be configured to meet individual needs and requirements. Using this, the alarm frequency can also be modified so that the alarm detection is adapted to different industrial background noises.

ORDER INFORMATION

Dräger X-zone 5000

Dräger X-zone 5000 - 868 MHz, 12 Ah	83 20 740
Dräger X-zone 5000 - 868 MHz, 24 Ah	83 20 741
Dräger X-zone 5000 - 868 MHz, 12 Ah with pump	83 20 742
Dräger X-zone 5000 - 868 MHz, 24 Ah with pump	83 20 743
Diffusion cap	83 20 636
Pump cap	83 20 704
Gas supply adapter	83 20 108
Alarm damper	83 20 110
Socket, 30 cm in height	83 20 645
Power supply units	
Battery pack, 12 Ah	83 20 644
Battery pack, 24 Ah	83 20 646
Chargers	
Inductive charger	83 20 626
Plug-in charger	83 20 749
Pump accessories	
Dust and water filter for pump inlet	83 19 364
Measuring probe 0.5 m	64 08 238
Tester 0.9 m	83 16 532
Telescopic probe 1.0 m	83 16 530
Measuring probe 1.5 m	64 08 239
Telescopic probe 1.5 m	83 16 533
Float probe with 5 m viton hose	83 18 371
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



D-27601-2009

Wireless fence line
Up to 25 Dräger X-zones automatically interconnect to form a wireless fence line.



D-27769-2009

Area monitoring
Dräger X-zone 5000 complements the Dräger personal gas measuring devices X-am 5000 and X-am 5600.

ACCESSORIES



D-23826-2009

Bump test adapter
For function tests



D-23827-2009

Cover plate
With diffusion adapter



D-23830-2009

Cover plate
With pump adapter



D-23831-2009

Socket
For measurements of light gases



D-27768-2009

Alarm damper
For use within bump tests



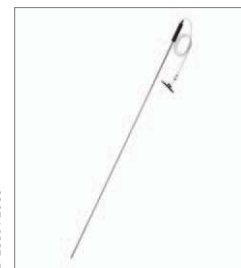
D-23834-2009

Induction charger
Allowing easy, non-contact charging



ST-5026-2005

Dräger CC-Vision
Configuration software



D-25391-2009

Measuring probe
1.5 m

TECHNICAL DATA**Dräger X-zone 5000**

Dimensions (W x H x D)	490 x 300 x 300 mm
Weight	7 kg (12 Ah battery), 10 kg (24 Ah battery)
Ambient conditions	Temperature: -20 to +50°C Pressure: 700 to 1,300 mbar Relative humidity: 10 to 95 %
Protection class	IP 67
Alarm	Visual, 360° LED (illuminated ring) Acoustic, 360°; > 105 dB in 1 m distance Configurable alarm patterns, frequencies and volumes
Live signal	Green status display (360°), illuminated ring (LED)
Operating times	Approx. 60 h (12 Ah battery), approx. 120 h (24 Ah battery) Depending on sensor equipment / configuration of the life signal
Charging times	< 10 h Flexible power supply: External 100 - 240V charger (worldwide) or inductive wireless charging
Pump operation	Max. hose length: 45 m
Alarm output	Potential-free alarm contact for intrinsically safe circuits (6-pole); < 30 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 200 m
RF approvals	868 MHz, 915 MHz, 433 MHz, 430 MHz (EU, Norway, Switzerland, Turkey, India, South Africa, Singapore, USA, Canada, Australia, Japan)
Approvals (pending)	ATEX II 1G Ex ia IIC T4 IEC Ex ia IIC T4 UL Class I Div. 1 Groups A,B,C,D Class II Div. 1 Groups E,F,G

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