

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 up to six gases. This easily transportable, robust and water-proof unit extends mobile 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. This interconnection of the area monitoring devices 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 Dräger X-zone 5000 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, providing a fast and easy recognition of the alarm and the alarm-triggering area monitoring device. This promotes an easy and clear evacuation. Alternatively, the fence line can be wired.

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-23602-2009

Dräger X-zone® 5000
Front view



D-23594-2009

Dräger X-zone® 5000
Back view

DRÄGER X-ZONE® 5000



ALARM CONTACT TO CONNECT TO EXTERNAL EQUIPMENT

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

AVAILABLE FOR USE IN EX ZONE 0

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

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.

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.

EASY MAINTANCE

With the Dräger X-Zone 5000, Daily bump tests and calibrations of the integrated Dräger X-am 5000/5600 are no longer necessary. Only one-time testing on site is now necessary for continuous operation. Alternatively you can offer our Dräger BumpTest Station or the workshop solution Dräger E-Cal.

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 alarms are adapted to different industrial background noises.

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

ACCESSORIES



D-23626-2009

Bump test adapter
For function tests



D-27768-2009

Alarm damper
For use within bump tests



D-23631-2009

Socket
For measurements of light gases



D-23634-2009

Inductive charger
Allowing easy charging



D-1568-2010

Plug-in charger
100 - 240 V



D-10391-2009

Float probe
with 5 m or 16.4 ft. viton hose



D-1571-2010

Hose set
consisting of water trap,
dust and water filter



D-34526-2009

Dräger CC-Vision
Configuration software

D-27601-2009



Wireless fenceline
Up to 25 Dräger X-zone 5000
automatically interconnect to form
a wireless fenceline.

D-27769-2009



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

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

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