Dräger X-zone® 5000

Area monitoring without limits – the Dräger X-zone 5000. In combination with the Dräger X-am 5000, the X-zone 5000 reliably monitors for up to six hazardous gases and warns at preset levels. 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 X-am 5000 personal gas detection instrument into an innovative area monitoring device for a wide range of applications. A patented combination for increased safety – used with personal gas air monitoring carried on the body or positioned where gas hazards are expected, the X-zone 5000 area monitor knows no limits!

CLEAR ALARM - 360°

Even from a distance, the illuminated green LED ring indicates that the air is free of toxic and combustible gases. When gas hazards are detected, the LED changes colors from green to red, providing a clear visual warning that hazardous gas is present. In addition, it emits a loud and audible evacuation alarm. With a patented 360° alarm amplifier, the acoustic warning is heard easily over a wide area, independent of wind direction. The Dräger X-zone 5000 gas entry is arranged so that gas can diffuse into the Dräger X-am 5000 from all sides.

WIRELESS FENCELINE

Up to 25 Dräger X-zones can be automatically interconnected to form a wireless fenceline. This interconnection of the monitoring devices allows for rapid securing of larger areas, e.g. leaking pipelines or industrial tanks – or the monitoring required during industrial shutdowns.

In the event of a gas alarm, the Dräger X-zone 5000 transmits alarm signals to all units that are part of the fenceline which then display a daughter alarm. The original alarming unit shows a red LED along with its audible alarm, while the daughter alarm displays green/red with its illuminated LED ring. This provides fast, easy recognition of the general alarm, while identifying the unit which alarmed originally. This assures a positive alert and a clear and clean evacuation. Alternatively, the fenceline can be wired.

AREA MONITORING – USING A SAMPLING PUMP

An optional integrated pump allows monitoring of remote areas by pulling a sample to the device. 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

ALARM CONTACT FOR CONNECTION TO EXTERNAL EQUIPMENT

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

AVAILABLE FOR USE IN CLASS I, DIV 1 OR ZONE 0 AREAS

Unlike personal gas detectors, area monitoring devices often stay located within a potentially hazardous area, even during a gas alarm. It is therefore important that the devices are approved for use in explosive hazard areas. 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 unit weighs about 7kg (15 lbs) and offers continuous operation for up to 60 hours. The alternative 24 Ah battery 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 wireless induction charger. With the inductive charge cradle, the device is simply placed into the charger – 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. Alarm volume, visual cadences and frequency can all be adjusted. In addition, X-zones can be grouped to work as teams, so several groups of units can be set up to monitor different areas in close proximity without interfering with each other.

ORDER INFORMATION

Dräger X-zone® 5000 with diffusion cap	Order No.
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 with integrated pump, diffusion and pump cap	
Dräger X-zone 5000 – 915 MHz, 12 Ah battery	83 20 746
Dräger X-zone 5000 – 915 MHz, 24 Ah battery	83 20 747
Accessories	
Bump Test adapter	83 20 108
Alarm damper	83 20 110
Leg extender, 25 cm or 1 ft. in height	83 20 645
Charging accessories	
Inductive charger	83 22 076
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
Viton hose, solvent-resistant	12 03 150
Tygon hose	45 94 707
Telescoping Probe, 1.0m	83 11 630
Telescoping Probe, 1.5m	83 16 533
Communication accessories	
Dräger CC-Vision®	64 08 515
USB DIRA with USB cable	83 17 409

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*.

ACCESSORIES

D-23626-2009

Bump test adapter
For function tests

D-27768-2009

Alarm damper
For use within bump tests

D-23631-2009

Leg Extender
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

TECHNICAL DATA

Dräger X-zone® 5000		
Dimensions (W x H x D)	490 x 300 x 300 mm	
	16.2 x 11.4 x 11.4 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 at 1 m (39 in.), 120 dB at 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 (330 ft.)	
RF approvals	915 MHz (USA, Canada, India, Australia)	
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
	C SP US	Ex ia IIC T3
		Ex d ia IIC T4
		Class I, Zone 0, AEx ia IIC T3
		Class I, Zone 1, AEx d ia IIC T4