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Safety & Industrial Products
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Dräger X-zone® 5800 Area Monitor

State-of-the-art area monitoring: the Dräger X-zone® 5800 in combination with the Dräger X-am® 5000, 5100, and 5600 gas detectors can be used for the measurement of up to six gases. The internal pump and continuous power supply in the explosive area of Zone 0 / C1D1 extend the range of applications in mobile gas detection technology.



Dräger X-zone® 5800



Benefits

Area monitor

- Combination with Dräger X-am® 5000, 5100, and 5600 – measurement of up to 6 gases
 - Extensive area/fenceline monitoring up to 25 devices
 - Option for permanent power supply in explosive areas (zone 1 / C1D1)
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Innovative area monitoring

The Dräger X-zone 5800 transforms the Dräger X-am 5000, 5100 and 5600 personal gas detectors 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 the air is free of monitored toxics and combustible gases. Upon detection of gas hazards, the LED color changes from green to red, providing a clear visual warning that gas is present. Additionally, a loud and highly audible evacuation alarm is emitted. The Dräger X-zone 5800 gas entry location permits gas to diffuse into the Dräger X-am 5000, 5100 and 5600 from all sides.

Wireless fenceline

Up to 25 Dräger X-zone 5800s can be automatically interconnected to form a wireless fenceline. The interconnection of the area monitoring devices allows for rapid establishment of safety networks for larger areas.

A Dräger X-zone 5800 area monitor detecting a gas alarm transmits the alarm signal to all interconnected units. A red flashing alarm in the unit detecting the gas contrasts with alternating red and green flashing alarms of the connected units. This provides simple recognition of alarm status and the actual location of the hazard.

With the corresponding configuration, the maximum gas concentration in the monitored area is shown on the display. Combined with the display of the X-zone ID a clear containment of the hazard area is possible.

Continuous operation of the X-zone for up to 120 hours – or even longer

The 24 Ah battery of the Dräger X-zone 5800 provides up to 120 hours of continuous operation – up to a complete working week.

The Power Supply Ex is available for continuous use of the X-zone 5800. It offers a 50 m (164 ft) supply from a safe area to a potentially explosive area and is approved for use with the X-Zone 5800 in zone 0 / C1D1 areas.

Benefits

For safe transport, the cable of the Power Supply X is rolled up on a cable drum with the integrated power supply.

Pump or diffusion mode – suitable for your respective application

The X-zone 5800 offers two options for sampling gas: remote pump from 30 m (98 ft) for Zone 0 or diffusion. The pump or diffusion cover plate can be changed without tools.

Other benefits

- 360° gas entry
- Approval for Ex Zone 0 / C1D1 areas
- Individually configurable with the Dräger CC-Vision PC software (e.g. alarm frequency)
- Inductive charging station: easy and convenient non-contact charging (outside the Ex-area)

Interfaces

The interfaces on the back of the device offer the possibility of switching actuators in case of alarms by means of the configurable relay. The interface can also directly forward device data, such as measured values of sensors and alarms, via Modbus protocol. This allows you to integrate the devices into existing evaluation units.

System Components



D-21278-2020

Power Supply Ex

The Power Supply Ex enables the X-zone 5800 to be continuously supplied with power in areas where explosive gases may be present.

System Components

D-16519-2009



Dräger X-am® 5000

The Dräger X-am® 5000 belongs to a generation of gas detectors, developed especially for personal monitoring applications. This 1- to 5-gas detector reliably measures combustible gases and vapors as well as O₂ and harmful concentrations of toxic gases, organic vapors, odorant and amine. It is approved for most markets including mining, oil & gas, chemical, fire and hazardous response, government and many other applications.

D-7474-2019



Dräger X-am® 5100

For manufacturing petrochemical products, aseptic packing, or handling of rocket fuel: the Dräger X-am® 5100 portable single-gas detector ensures safe handling of HF, HCl, H₂O₂ or hydrazine—thanks to proven Dräger sensor technology and a device design which is perfectly customized to reactive gases.

D-23637-2009



Dräger X-am® 5600 Personal Monitor

Featuring an ergonomic design and innovative infrared sensor technology, the Dräger X-am® 5600 is the smallest gas detection instrument for the measurement of up to 6 gases. Ideal for personal monitoring applications, this robust and water-tight detector provides accurate, reliable measurements of explosive, combustible and toxic gases and vapors as well as oxygen.

Accessories



D-23626-2009

Bump test adapter

Diffusion faceplate for function tests



D-27768-2009

Alarm damper

Sound reducer for bump tests



D-23631-2009

Socket

Increased height to lighter gases or environmental concerns



D-23634-2009

Induction charger

Wireless charging option

Accessories

D-10391-2009



Float probe

Includes 5 m (16.4 ft) Viton hose

D-1571-2010



Hose set

Consists of water trap, dust and water filter

D-30746-2015



Dräger Configuration and Evaluation Software

Tailor-made Dräger software makes saving measurement results, professionally configuring gas detection instruments, and viewing performance data possible.

D-0494-2018



Calibration gas and accessories

For the safe operation of devices, applicable regulations and statutory provisions are to be met and complied with. Therefore, regular calibrations and function tests are necessary. Different systems are available so that products meet a wide range of calibration requirements.

Related Products

D-77497-2013



Dräger X-am® 2500

Dräger's X-am® 2500 accurately detects combustible gases, O₂, CO, NO₂, SO₂ and H₂S and is the only 1–4 gas monitor you need in industrial and refinery applications. The X-am® 2500 combines reliable sensor technology with long battery life and intuitive operation in an instrument that defines safety. It is approved for most markets including mining, oil & gas, chemical, fire and hazardous response, government and many other applications.

D-6491-2017



Dräger X-am® 8000

Clearance measurement was never this easy and convenient: The 1 to 7 gas detector detects toxic and flammable gases as well as vapors and oxygen all at once – either in pump or diffusion mode. Innovative signaling design and handy assistant functions ensure complete safety throughout the process.

Technical Data

Dräger X-zone® 5800

Dimensions (W x H x D)	490 x 300 x 300 mm (20 x 12 x 12 in)	
Weight	10 kg (22 lbs.) (24 Ah battery)	
Ambient conditions	Temperature max. +50 °C (+122 °F), depending on sensors used Pressure 700 to 1,300 hPa Humidity 10 to 95 % r.h. Temperature as low as -50 °C (-58 °F), depending on sensors used	
Ingress Protection	IP67	
Alarm	Visual 360° LED (illuminated ring) Audible 360°; >108 dB in a distance of 1 m (3 ft), 120 dB in a distance of 30 cm (1 ft) Configurable alarm patterns, frequencies and volumes	
Life signal	Green status display (360°), illuminated ring (LED)	
Operating time	Approx. 120 h (24 Ah battery) Depending on sensor equipment / configuration of the life signal, Extended run time is possible with optional Power Supply Ex	
Charging time	Approx. 14 h Flexible power supply: External 100 – 240 V charger (worldwide) or inductive wireless charger	
Pump operation	Maximum hose length: 45 m (150 ft); 30 m (98 ft) for Zone 0	
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 (328 ft)	
RF approvals	915 MHz (USA, Canada)	
Approvals	ATEX	I M1 Ex ia I Ma II 1G Ex ia IIC T4 Ga
	IECEX	Ex ia I Ma Ex ia IIC T4 Ga
	CSA (Canada and US)	[Ex ia Ga] IIC [AEx ia Ga] IIC
Power Supply Ex Hardware		
Dimensions	365 x 320 x 250 mm (14.4 x 12.6 x 9.8 in)	
Weight	10 kg (22 lb)	
Protection class	IP 44	
Approvals (Note: applies only to the intrinsically safe connection to the X-zone 5800. The Power Supply Ex itself has no approvals)	ATEX	II (1)G [Ex ia Ga] IIC
	IEC Ex	[Ex ia Ga] IIC
	CSA (Canada and USA)	[[Ex ia Ga] IIC [AEx ia Ga] IIC
Temperature range	-20 °C to +55 °C (-4 °F to 131 °F)	
Cable length	Cable drum 50 m (164 ft) Connection cable 0.5 m (1.64 ft) + Power Cord EU, UK, US or AUS 3 m (9.84 ft)	

Ordering Information

Dräger X-zone® 5800

Dräger X-zone® 5800 915 MHz, 24 Ah pump
Gas supply adapter

Part-No.

83 29 040
83 23 314

Ordering Information

Alarm damper	83 20 110
Socket, 24 cm (12 in) height	83 20 645
Set: cap for Dräger X-am® 5100 for X-zone® with pump	83 23 938
Power supply ex-approved area	
Power supply Ex 110 V (power cord must be ordered separately)	83 29 010
Power cord USA	83 29 049
Charging accessories	
Inductive charger	83 22 076
Plug-in charger	83 20 749
Pump accessories	
Float probe with 5 m or (16.4 ft) FKM hose	83 18 371
Hose set (consisting of water trap, dust and water filter)	83 21 527
Hose, electronically conductive	11 80 681
FKM hose, solvent-resistant	12 03 150
Tygon® hose	83 20 766
Communication accessories	
Dräger CC-Vision	www.draeger.com/software
USB DIRA with USB cable	83 17 409
Tygon® is a registered trademark of Saint-Gobain Corporation.	

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