

Dräger X-zone® 5500 Multi-Gas Detection Device

State-of-the-art area monitoring – the Dräger X-zone 5500 in combination with the Dräger X-am® 5000, 5100 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.



Benefits

Innovative area monitoring

The Dräger X-Zone 5500 transforms the Dräger personal gas detection instruments X-am 5000, 5100 and 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 5500 gas entry is located that the gas can diffuse into the Dräger X-am 5000, 5100 or 5600 from all sides.

Wireless fenceline

Up to 25 Dräger X-Zone 5500 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 5500 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.

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 for up to 120 hours

The 24 Ah battery of the Dräger X-zone 5500 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
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Data interface modbus

- Integration in a control room system
- Connection to external displays, such as Dräger RVP 5000

Benefits

Simply connected - informed everywhere

The new Dräger X-zone 5500 with X-zone Com GSM module, sends all data and alarms to your location – by email, SMS and to the Cloud.

The more secure type of area monitoring

Time, place and gas concentration are the most important data in the event of a gas leak. In an emergency, every second counts. Therefore we have developed a more efficient and significantly safer type of area monitoring with the Dräger X-zone 5500, including X-zone Com. With these you can receive and view the measured data and alarms outside of the danger zone.

The new X-zone Com GSM-Module

This module allows you to access the Dräger X-zone 5500 data wirelessly over the GSM network. Be it status requests or alerts via SMS using a periodic delivery of data via e-mail to a FTP server or a cloud service - the X-zone Com GSM module sends all data directly to the device of your choice.

Up to 15 Dräger X-zone can automatically connect themselves to a wireless alarmchain to accurately and comprehensively monitor large areas. For this only a single X-zone Com is required to retransmit the data of the entire chain. All relevant information such as maximum values of the measured gas type will reach those responsible within seconds.

Additional functions

On the laptop data of the Dräger X-zone 5500 group can also be displayed via Bluetooth®. With the integrated GPS module, the position of the X-zone Com and thus the location of the hazard source is transmitted. A data logger continuously stores the measured values. This ensures that no data is lost. Analysis of trends are simply in the cloud possible.

Thus, all important measures covering evacuation and protection as well as the elimination of the problem and the resumption of work can be implemented quickly, efficiently and, above all, safer.

System components



D-3048-2014

X-zone Com®

The X-zone Com informs about gas concentrations and alarms by text message, email and Cloud.



D-6704-2011

Switchbox

The Dräger X-zone Switch On/Off switch the power of the connected end devices on/off when the X-zone alarms.



ST-9466-2007

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.



D-37721-2011

Dräger X-am® 5100

For manufacturing petrochemical products, aseptic packing, or handling of rocket fuel: the Dräger X-am 5100 portable single-gas detector guarantees that you use the safest methods possible for handling HF, HCl, H₂O₂ or hydrazine – thanks to proven Dräger sensor technology and a device design which is perfectly customised to reactive gases.

System components



D-27784-2009

Dräger X-am® 5600

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.



D-52751-2012

Dräger RVP 5000 Visualization panel

The Dräger RVP 5000 is a high resolution 8.4" touch panel for central visualization and data processing of gas concentrations from the Dräger REGARD central unit.

Accessories



D-23826-2009

Bump test adapter

For function tests

Accessories



D-27768-2009

Alarm damper

For use within bump tests



D-23631-2009

Socket

For measurements of light gases



D-23634-2009

Induction charger

Allowing easy charging



D-1568-2010

Plug- in charger

100 - 240 V

Accessories



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-34625-2009

Dräger Software Packages

Save measurement results, professionally configure gas detection instruments and viewing performance data – all that is possible with the tailor-made Dräger software.



ST-5080-2005

Calibration gas and accessories

Calibration of equipment will ensure safe operation and functionality of equipment and will also meet with the applicable regulations and codes of practice. Various calibration options are available to provide this facility.

Related Products



D-59024-2012

Dräger X-am® 2500

The Dräger X-am 2500 was especially developed for use as personal protection. The 1 to 4 gas detector reliably detects combustible gases and vapours, as well as O₂, CO, NO₂, SO₂ and H₂S. Reliable and fully mature measuring technology, durable sensors and easy handling guarantee a high degree of safety with extremely low operating costs.



ST-67-2006

Dräger X-am® 7000

Dräger X-am 7000 is the solution for the simultaneous and continuous measurement of up to five gases. It is the ideal companion in a variety of applications where the reliable detection of oxygen, toxic and combustible gases and vapors are necessary.

Technical Data

Dräger X-zone® 5500

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|------------------------|---|---|
| Dimensions (W × H × D) | 490 × 300 × 300 mm 20 × 12 × 12 in. | |
| Weight | 10 kg (22 lbs.) (24 Ah battery) | |
| Ambient conditions | Temperature max. +40 °C; max. 104 °F Pressure 700 to 1,300 hPa Humidity 10 to 95 % r.h. | |
| Ingress Protection | IP67 | |
| 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 | |
| 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 | |
| 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.) | |
| 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) | |
| Approvals | ATEX | I M1 Ex ia I Ma II 1G Ex ia IIC T3 Ga II 2G Ex ia d IIC T4 Gb |
| | IECEX | Ex ia IIC T3 Ga Ex ia d IIC T4 Gb Ex ia I Ma |
| | CSA/US | Class I, zone 0, AEx ia IIC T3 Ga (Approval pending) Class I, zone 1, AEx ia d IIC T4 Gb |

X-zone Com®

| | | |
|------------------------|--|-----------------|
| Dimensions (W × H × D) | 360 × 360 × 240 mm (mit X-zone® 360 × 360 × 610 mm) | |
| Weight | 7 kg | |
| Protection class | IP67 (with closed ports) | |
| ATEX-Label | ATEX II 2G Ex ib [ia IIC Ga] IIB T4 Gb | |
| Temperature range | battery operation: | -10 °C – +40 °C |
| | charging/line operated: | 0 °C – +30 °C |
| Battery | 13.5 Ah NiMH, 12 V DC | |
| Data storage | 8 MB, 270,000 data sets | |
| Communication | Bluetooth class 1 GSM/GPRS Telit Modem antenna dual band 900/1800 MHz | |
| Interfaces | RS485 connection to X-zone® RS232 connection to PC Connection to Dräger Switch On/Switch Off | |
| GPS receiver | | |

Ordering Information

| Dräger X-zone® 5500 | Part-No. |
|--|--|
| Dräger X-zone® 5500, 868 MHz, 24 Ah battery with diffusion cap | 83 24 819 |
| Dräger X-zone® 5500 with integrated pump, 868 MHz, 24 Ah battery with diffusion and pump cap | 83 24 821 |
| Gas supply adapter | 83 23 314 |
| Alarm damper | 83 20 110 |
| Socket, 25 cm high (12 in.) | 83 20 645 |
| Set: cap for Dräger X-am® 5100; for X-zone® with pump | 83 23 938 |
| Charging accessories | |
| Inductive charger | 83 22 080 |
| 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 |
| PVC hose | 83 20 766 |
| Communication accessories | |
| Dräger CC-Vision | www.draeger.com |
| 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 |
| X-zone Com® GSM-Modul | |
| X-zone Com® | 83 24 383 |
| Cloud license 1 year | 83 25 346 |
| Cloud license 3 years | 83 25 347 |
| External Display | |
| Dräger RVP 5000 | SC 00 090 |
| Dräger RVP 5000 with data logger | SC 00 091 |
| Dräger RVP 5000 with web server and data logger | SC 00 092 |

X-zone Com® is a registered trademark of ORI GmbH & Co.KG.

Notes

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