

► X-zone® 5500

Area gas monitor



Caractéristiques techniques

Dimensions (l x h x p) : 490 x 300 x 300 mm

Weight: 10 kg (24 Ah battery)

Operating conditions:

- Max. temperature +50 °C
- Pressure 700 to 1 300 hPa
- Humidity 10 à 95 % HR

Ingress protection: IP 67

Alarms:

- 360° LED (light ring)
- 360° audible alarm, 120 dB at a 30 cm distance
- Configurable alarms : profile, frequency & volumes

Operating signal:

Status light (360°), light ring (LED)

Autonomy:

Approx. 120 hours (24 Ah battery) depending on installed sensors and status light configuration

Charge time: Approx. 14 h

Flexible power source: external battery charger 100 – 240 V (universal) or wireless induction charger

Pump operation: hose maximum length: 45 m, 30 m for zone 0

Alarm output: Dry contact for intrinsically safe electric circuit (6 poles); < 20 V to 0,25 A (0,15 A constant current);

Certifications:

- 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, A/Ex ia IIC T3/Ga
 Class I, zone 1, A/Ex ia d IIC T4/Gb

Product description

Easily transportable, robust, dust and water proof, the Dräger X-zone® 5500, in association with the Dräger X-am® 5000, 5100 or 5600 gas detectors, can monitor up to 6 gases at the same time. This device is an innovative and powerful concept dedicated to safety: it integrates the handheld personal gas detector into the area gas monitor to form a unique and flexible gas detection system on the go.

► **Up to 120 hours of continuous runtime**

The 24 Ah battery of the X-zone 5500 offers high continuous operation that can last up to 120 hours. Which is equivalent to a complete work week.

► **Clear and distinct alarms**

A green LED light ring indicates that the environment is safe and free from toxic or combustible gas. When gas or dangerous substances are detected, the LED ring becomes red, providing a visual warning that efficiently indicates dangerous gas presence. At the same time, a high level audible alarm sounds.

► **A wireless network of interconnected monitors**

Up to 25 area gas monitors can be automatically interconnected to create a wireless alarm system. This connectivity of the monitoring devices allows efficient and fast protection on large zones. If one of the monitors detects gas, it will transmit the signal to all the connected devices. A red master signal blinks on the monitor that detected the gas, in contrast with the other connected devices blinking red and green, thus allowing easy identification of the dangerous area.

► **Secured and centralized area gas monitoring**

The X-zone Com controller was designed to answer the need for centralizing X-zone 5500 area monitors information that are transmitted wirelessly.

The controller can receive and consult data as well as alarm events through the GSM cellular network with data dispatch via SMS, mail or from cloud or FTP service on a PC. Only one X-zone Com module is necessary to transmit the data of the entire chain.



All the relevant information gets to operation managers and directors in a few seconds. It is also possible to display the data concerning all the area gas monitors of a group on a laptop via Bluetooth®.

A data recorder keeps track of the measured values in real time to allow analysis and archive processing of trends and alarm events.

Sensors references



Gas	X-am 5100 (1 gas)	X-am 5000 (5 gas)	X-am 5600 (6 gas)	Measuring range	Resolution	Reference
Amine		•	•	0 - 100 ppm	1 ppm	68 12 545
Cl2		•	•	0 - 20 ppm	0.05 ppm	68 10 890
CO		•	•	0 - 2 000 ppm	2 ppm	68 11 882
CO / 5 years lifetime		•	•	0 - 2 000 ppm	2 ppm	68 11 212
CO / H2 compensated		•	•	0 - 2 000 ppm	2 ppm	68 11 950
CO / Hight concentration		•	•	0 - 10 000 ppm	5 ppm	68 12 010
CO / H2S		•	•	0 - 2 000 ppm CO 0 - 200 ppm	2 ppm 1 ppm	68 11 410
CO2 (electrochemical)		•	•	0 - 5 %/vol.	0.1 %/vol.	68 10 889
CO2 (IR)			•	0 - 5 %/vol.	0.01 %/vol.	68 10 190
COCl2		•	•	0 - 10 ppm	0.01 ppm	68 12 005
Ex (catalytique)		•		0 - 100 % LEL	1 % LEL	68 12 950
Ex (IR)			•	0 - 100 % LEL	1 % LEL	68 12 960
Ex (IR) / CO2 (IR)			•	0 - 100 % LEL 0 - 5 %/vol.	1 % LEL 0.01 %/vol.	68 12 370
H2		•	•	0 - 2 000 ppm	5 ppm	68 12 025
H2 / Hight concentration		•	•	0 - 4 %/vol.	0.01 %/vol.	68 10 883
H2S		•	•	0 - 200 ppm	1 ppm	68 10 213
H2S / 5 years lifetime		•	•	0 - 200 ppm	1 ppm	68 11 525
H2S / Low concentration		•	•	0 - 100 ppm	0.1 ppm	68 12 015
H2S / Hight concentration		•	•	0 - 1 000 ppm	2 ppm	68 09 170
H2O2	•			0 - 20 ppm	0.1 ppm	68 09 140
HBr	•			0 - 30 ppm	1 ppm	68 09 140
HCl	•			0 - 30 ppm	1 ppm	68 09 140
HF	•			0 - 30 ppm	0.66 ppm	68 09 140
HNO3	•			0 - 30 ppm	1 ppm	68 10 887
HCN		•	•	0 - 50 ppm	0.1 ppm	68 13 165
HCN		•	•	0 - 50 ppm	0.5 ppm	68 09 190
N2H4	•			0 - 5.0 ppm	0.1 ppm	68 10 888
NH3		•	•	0 - 300 ppm	1 ppm	68 11 545
NO		•	•	0 - 200 ppm	0.1 ppm	68 10 884
NO2		•	•	0 - 50 ppm	0.1 ppm	62 12 600
NO2 / Hight concentration		•	•	0 - 50 ppm	0.02 ppm	68 12 881
O2		•	•	0 - 25 %/vol.	0.1 %/vol.	68 12 211
O2 / 5 years lifetime		•	•	0 - 25 %/vol.	0.1 %/vol.	68 12 385
O2		•	•	0 - 100 %/vol.	0.5 %/vol.	68 12 005
O3		•	•	0 - 10 ppm	0.01 ppm	68 12 535
Odorant		•	•	0 - 40 ppm	0.5 ppm	68 11 530
OV		•	•	0 - 200 ppm	0.5 ppm	68 11 535
OV-A		•	•	0 - 200 ppm	1 ppm	68 10 886
PH3		•	•	0 - 20 ppm	0.01 ppm	68 12 020
PH3		•	•	0 - 2 000 ppm	1 ppm	68 09 140
POCl3	•			0 - 30 ppm	1 ppm	68 10 885
SO2		•	•	0 - 100 ppm	0.1 ppm	68 10 885