

Dräger X-am[®] 5100 Single-gas detector for HF, HCl, H₂O₂ or hydrazine

Dräger X-am 5100 portable single-gas monitor 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 customized to reactive gases.



AN ERGONOMIC INSTRUMENT THE SIZE OF A MOBILE PHONE

The Dräger X-am 5100 is a small lightweight single gas monitor which is specifically designed for the requirements of personal monitoring. It ensures users a high level of comfort and convenience. The monitor can be used intuitively thanks to the practical two-button control panel and straightforward menu guidance system.

PROVEN ELECTROCHEMICAL SENSORS

DrägerSensors[®] stand for innovative technology at the highest level. The Dräger XS sensors for HF/HCl, H₂O₂ and N₂H₄ are proven high performance sensors with years of successful use in the market place.

DIRECT GAS ENTRY AND ROBUST

The special design of the monitor with direct gas entry guarantees fast sensor response and precise measurement results by preventing gas adsorption on the monitor housing. The monitor has an ingress protection rating against dust and water of IP 54. The housing is resistant to impacts, vibrations and electromagnetic radiation for years of reliable use.

FLEXIBLE POWER SUPPLY

The Dräger X-am 5100 can be used with the standard NiMH rechargeable battery, optional high capacity NiMH or alkaline battery pack (2 AA batteries required). In addition, it can be fitted with a T4 battery which can be recharged while still inside the instrument. Charging can take place in the work-shop or in a vehicle, to suit your needs.

INTELLIGENT DATA MANAGEMENT

A data logger is standard equipment in the Dräger X-am 5100. The data logger has a recording interval of 1 value per minute for a duration of over 1,000 hours. The data can be transmitted via infrared interface to a PC and analyzed using the Dräger GasVision[®] software.

MULTIPLE ALARM INDICATORS

Four alarm indicators are standard with every model of the Dräger X-am 5100. There is a loud audible horn > 90 dB @ 1 ft. (30 cm), three bright flashing, red LED's visible from 360°, a powerful vibration alarm and an alarm level indication on the LCD.

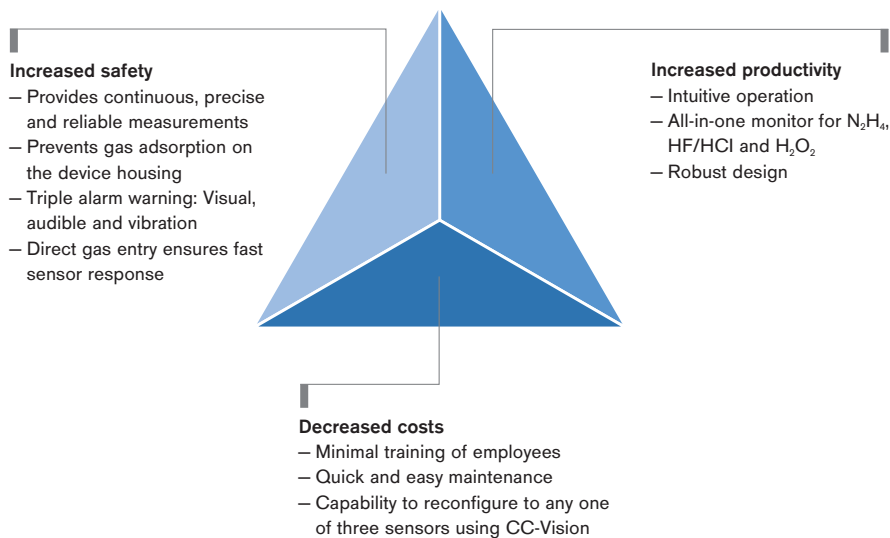


Dräger X-am 5100
Single-gas detector
for reactive gases



YOUR BENEFITS AT A GLANCE

The Dräger X-am 5100 is a monitor that makes measuring simple and cost effective while improving productivity



ORDERING INFORMATION

Dräger X-am 5100 N ₂ H ₄ , NiMH battery and charger	4542150
Dräger X-am 5100 N ₂ H ₄ , alkaline battery	4542151
Dräger X-am 5100 HF/HCl, NiMH battery and charger	4542152
Dräger X-am 5100 HF/HCl, alkaline battery	4542153
Dräger X-am 5100 H ₂ O ₂ , NiMH battery and charger	4542154
Dräger X-am 5100 H ₂ O ₂ , alkaline battery	4542155

Replacement sensors	Measuring range	Resolution	Response time (t ₉₀)	Ordering no.
DrägerSensor XS EC HF/HCl	0 – 30 ppm	0.1 ppm	60 sec.*	68 09 140
DrägerSensor XS EC H ₂ O ₂	0 – 20 ppm	0.1 ppm	60 sec.	68 09 170
DrägerSensor XS EC Hydrazine	0 – 3 ppm	0.01 ppm	180 sec.	68 09 190

*Response time (t₉₀)**Power supply units**

NiMH power pack T4 (>120 h operating time)	83 18 704
NiMH power pack T4 high capacity (>180 h operating time)	83 22 244
Alkaline power pack T3/T4 (requires 2 alkaline batteries)	83 22 237
Alkaline batteries T4 (2 pcs.) for alkaline power pack 83 22 237 (~150 h operating time)	83 22 240

Charging accessories

Charging module	83 18 639
Rechargeable battery and charging technology set Consisting of: NiMH power pack T4, charging module, single charger (worldwide) for 1 charging module	83 18 785
Rechargeable battery and charging technology set HC Consisting of: NiMH power pack T4 high capacity, charging module, single charger (worldwide) for 1 charging module	83 22 785
Charging kit consisting of a charging module and a single charger (worldwide)	83 20 333
Vehicle charging connecting cable 12V/24V for charging module (90 degree connector)	45 52 324
Vehicle charger mounting kit for a Dräger X-am 1/2/5x00 charging module	83 18 779

Calibration accessories

Calibration adapter	68 06 291
HCl test gas (10 ppm) for sensor 68 09 140	45 94 658
HCl test gas (25 ppm) for sensor 68 09 140	45 94 626
SO ₂ test gas (10 ppm) for sensor 68 09 170	45 97 050

Accessories for measured value datalogger and configuration

Dräger GasVision	83 14 034
Dräger CC-Vision Basic (free download from Dräger website)	
USB DIRA with USB cable, infrared communication adapter to USB	83 17 409
CC-Vision/DIRA professional set contains the Dräger CC-Vision, USB cable, IR interface, DIRA adapter charging module X-am 7000 and barcode reader	83 18 762

TECHNICAL DATA

Dimensions (W x H x D)	48 x 130 x 61 mm (1.9 x 5.1 x 2.4 in)
Weight	220 – 250 g (7.8 – 8.8 oz.)
Ambient conditions	Temperature -20 to 50 °C (-4 to 122 °F) Pressure 700 to 1300 mbar (20.7 to 38.4 inch Hg) Relative humidity 10 to 95 % RH
Alarms	Visual 360° Audible Multi-tone > 90 dB at 30 cm (1 ft.) Vibration
Ingress Protection	IP 54
Operating times	>120 h (alkaline battery) >120 h (NiMH rechargeable battery) >180 h (NiMH high capacity rechargeable battery)
Charging times	< 4 h
Data logger	Retrievable using an infrared interface > 1000 h at a recording interval of 1 value per minute
Approvals	ATEX I M1 Ex ia I Ma II 1G Ex ia IIC T4/T3 Ga -20 °C ≤ Ta ≤ 55/40 °C IECEX Ex ia I Ma Ex ia IIC T4/T3 Ga -20 °C ≤ Ta ≤ 55/40 °C cCSA _{us} Class I, Div. 1, Groups A,B,C,D TC T4/T3 Class I, Zone 0, A/Ex ia IIC T4/T3 /Ga
CE mark	Electromagnetic compatibility – Directive 2004/108/EC Explosion protection – Directive 94/9/EC
c CSA us	Class I, Div. 1, Group A, B, C, D, T.-Code T4/T3 Class I, Zone 0, A/Ex ia IIC T4/T3 /Ga
Warranty	2 years on monitor, 1 year on sensors, consumables such as batteries are excluded



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