

Dräger X-am[®] 5100 Single-Gas Detector

For manufacturing petrochemical products, aseptic packing, or handling of rocket fuel: the Dräger X-am[®] 5100 portable single-gas detector ensures 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.

Tightly fastening crocodile clip
Easy to attach, e.g. on the clothes

Robust housing
Not sensitive to impacts, vibrations and electromagnetic radiation

Simple two button operation
Intuitive to use

D-7474-2019



Special device design with direct gas access
Quick response of the XS EC sensors

Large display
All values at a glance

Benefits

Single-gas detector

- for personal air monitoring
 - Detection of HF, HCl, H₂O₂ or hydrazine
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Ergonomic shape

The Dräger X-am 5100 features a lightweight, convenient smartphone format for the greatest level of comfort. The gas detection device has been pared down to the minimum and, thanks to its two-button control panel and simple menu navigation, it is intuitive to use.

Reliable handling of reactive gases

The X-am 5100 measures continuously and reliably HF, HCl, H₂O₂ or hydrazine and gives three kinds of warnings: visual (360°), acoustic (multi-tone alarm) and vibration.

Special device design

The special device design with direct gas entry ensures that the sensors react quickly. Plus, the device provides precise measurement data by avoiding gas adsorption in the device housing.

Robust design

The X-am 5100 is tough: the integrated rubber boot as well as the shock-resistant sensors offer extra safety in case of impact or vibrations. The gas detection device is also resistant to electromagnetic irradiation.

Area monitoring

Combined with the Dräger X-zone 5500, the gas detection device can be used for flexible area monitoring. For example, up to 25 X-zone 5500 units can be automatically connected to form a wireless alarm chain. This connection of the transportable 'measuring heads' allows for the monitoring of large areas such as pipelines or tanks during an industrial shutdown.

System Components



ST-299-2001

DrägerSensor® XS

DrägerSensors can be used for detecting many different gases and vapours. We develop and produce the DrägerSensors ourselves. Additionally, you benefit from the sensors' long service life and low operating costs.



D-4946-2014

Dräger X-zone® 5500

State-of-the-art area monitoring – the Dräger X-zone® 5500 in combination with the Dräger X-am® 5000 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 comprehensive system with many applications.

Accessories



D-30746-2015

Dräger Configuration and Evaluation Software

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

Accessories



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 easily available.



Rechargeable battery and charging technology set



Vehicle charger mounting kit for a Dräger X-am® 1/2/5x00 charging module

Services

D-2331-2016



Product Service

Our product service department supports you with a range of service packages – in our shops or on site in your plant. Care, servicing and maintenance are key factors when it comes to safety. Diligent maintenance and care is also absolutely necessary from an economics perspective. Preventive checks, service procedures and original replacement parts make your investment last longer.

D-2335-2016



Training

The Dräger Academy has imparted well-founded and practical knowledge for over 40 years. With over 110 authorized trainers and more than 600 available topics, we conduct more than 2,400 training sessions per year. We equip your employees with the knowledge required for real-life situations and ensure that the learned material can be recalled and applied reliably – in their everyday work and especially in stressful situations. To meet your needs, we are also happy to develop a customized training program specifically for you.

D-2330-2016



Rental Service

From bridging a temporary shortage of equipment to procuring special equipment for applications involving specific requirements: If you only need to cover a temporary higher demand, then DrägerRental Service with over 65,000 pieces of rental equipment is an economical alternative to purchasing. Fast, straightforward and with a wide range of additional services available upon request.

D-2332-2016



On-site Safety Service

Whether through a rental shop, personnel services or comprehensive safety management, our On-Site Safety Services provide support in all projects where there are particular safety risks – not to mention normal day-to-day business.

Related Products



D-4877-2017

Dräger Pac® 6000

The disposable personal single-gas detection device, Dräger Pac® 6000, measures CO, H₂S, SO₂ or O₂ reliably and precisely, even in the toughest conditions. The robust design, quick sensor response times, and a powerful battery ensure maximum safety for up to two years with virtually no maintenance required.



D-4887-2017

Dräger Pac® 6500

The robust Dräger Pac® 6500 is your reliable companion under tough conditions. The personal single-gas detection device measures CO, H₂S, SO₂ or O₂ quickly and precisely. Measured data can easily be transmitted into the Dräger Gas Detection Connect system via Bluetooth®. Quick sensor response times and a powerful battery also ensure safety.



D-4889-2017

Dräger Pac® 8000

With the robust Dräger Pac® 8000, you'll be well equipped for tough conditions: this non-disposable, personal single-gas detection device is a reliable and precise instrument, which detects hazardous concentrations of 29 different gases, including special gases like NO₂, O₃ or COCl₂. Measured data can easily be transmitted into the Dräger Gas Detection Connect system via Bluetooth®.



D-4896-2017

Dräger Pac® 8500

The Dräger Pac® 8500 single-gas detection device is a reliable and precise instrument even under the toughest of conditions. The device can be equipped with a hydrogen-compensated CO sensor or a Dräger dual sensor. This gives you the option of measuring two gases at once: either H₂S with CO or O₂ with CO. Measured data can easily be transmitted into the Dräger Gas Detection Connect system via Bluetooth®.

Technical Data

Dimensions (W x H x D)	48 x 130 x 61 mm; 1.89 x 5.12 x 2.4 inches	
Weight	220 – 250 g; 7.8 – 8.8 oz.	
Ambient conditions	Temperature	-20 to +50 °C; -4 to +122 °F
	Pressure	700 to 1,300 mbar
	Relative humidity	10 to 90 % r.h.
Alarms	Visual	360°
	Audible	Multi-tone > 90 dB at 30 cm; 1 ft.
	Vibration	
Ingress Protection	IP54	
Operating times	~180 h (alkaline battery), ~150 h (NiMH rechargeable battery), or ~180 h (NiMH high capacity rechargeable battery)	
Charging times	< 4 h	
Data logger	Can be read out via infrared interface > 1,000 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
	c CSA us	Class I, Div. 1, Groups A,B,C,D TC T4/T3 Class I, Zone 0, A/Ex ia IIC T4/T3 /Ga
	EAC Ex	PO Ex ia I X 0 Ex ia IIC T4/T3 X
	CE mark	Electromagnetic compatibility – Directive 2014/30/EU Explosion protection – Directive 2014/34/EU

Ordering Information

Dräger X-am® 5100

83 22 750

Consisting of: basic device with an integrated data logger, manufacturer's certificate and calibration certificate

A power pack and sensor are integral elements of a functioning device

Description	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 Hydrazin	0 – 5 ppm	0.01 ppm	180 sec.	68 09 190
*Response time (t ₅₀)				

Power supply units

NiMH power pack T4 (~150 h operating time)	83 18 704
Alkaline power pack T3/T4 (without alkaline batteries)	83 22 237
Alkaline batteries T3 (2 pcs.) for alkaline power pack 83 22 237 (~180 h operating time)	83 22 239

Charging accessories

Charging module	83 18 639
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Ordering Information

Rechargeable battery and charging technology set Consisting of: NiMH power pack T4, charging module, single charger (worldwide) for 1 charging module	83 18 785
Charging kit consisting of a charging module and a single charger (worldwide)	83 20 333
Vehicle charging connecting cable 12 V / 24 V for charging module	45 30 057
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	68 12 107
HCl test gas (25 ppm) for sensor 68 09 140	68 12 115
SO ₂ test gas (10 ppm) for sensor 68 09 170	68 10 645
Accessories for measured value data logger and configuration	
Dräger GasVision 7	83 25 646
Dräger CC-Vision Basic	free of charge: www.draeger.com/software
USB DIRA with USB cable, infrared communication adapter to USB	83 17 409

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