

Ribble Enviro
...everything gas detection

Data Sheet

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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.

Dräger X-am 5100

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

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

Large display
All values at a glance



Benefits

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



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.



Dräger X-zone 5500

State-of-the-art area monitoring – the Dräger X-zone 5500 in combination with the Dräger X-am 5x00 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.



Dräger X-zone 5800

State-of-the-art area monitoring – the Dräger X-zone 5800 in combination with the Dräger X-am 5x00 gas detection instruments 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 extend the range of applications in mobile gas detection technology.

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.

D-0494-2018



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 gas options are easily available.

D-12284-2009



Rechargeable battery and charging technology set

NiMH supply unit T4 with charger module und power pack

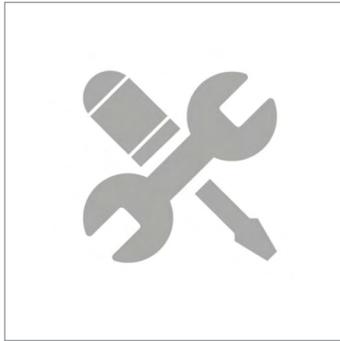
ST-15012-2008



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

Services

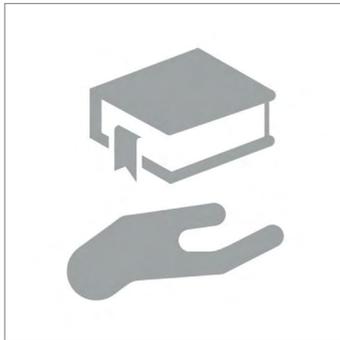
D-2331-2016



Product service

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

D-2335-2016



Training

The Dräger Academy has been sharing its sound, practical knowledge for over 40 years. With more than 110 authorised trainers and over 600 topics, we run more than 2,400 training sessions a year. We provide your staff with practical knowledge and ensure that what they learn can be applied effectively, both on a day-to-day basis and more importantly, in critical situations. We're also happy to develop a custom-made training programme just for you.

D-2330-2016



Rental service

Whether you need to cover a temporary shortage or require specialised equipment for demanding conditions, for short-term needs, Dräger Rental Service provides a cost-effective solution with over 65,000 devices available. It's quick, simple and comes with a wide range of additional services upon request.

D-2332-2016



On-site safety services

Whether through a rental shop, personnel services or comprehensive safety management, our on-site safety services support projects with increased safety risks, as well as everyday operations.

Related Products

D-16271-2024



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-16279-2024



Dräger Pac 6500

The robust Dräger Pac 6500 is your reliable companion in tough conditions. The personal single-gas detector quickly and accurately measures CO, H₂S, SO₂ or O₂ levels. The measurement data can be easily transferred via Bluetooth® to the Dräger Gas Detection Connect system. Fast sensor response and a long-lasting battery enhance safety.

D-16293-2024



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-16320-2024



Dräger Pac 8500

The Dräger Pac 8500 single-gas detection device is a reliable and precise instrument even under the toughest of conditions. Measured data can easily be transmitted into the Dräger Gas Detection Connect system via Bluetooth®. 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: H₂S with CO, H₂S with O₂ or O₂ with CO.

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

8322750

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.*	6809140
DrägerSensor XS EC H ₂ O ₂	0 – 20 ppm	0.1 ppm	60 sec.	6809170
DrägerSensor XS EC Hydrazin	0 – 5 ppm	0.01 ppm	180 sec.	6809190

*Response time (t₉₀)

Power supply units

NiMH power pack T4 2.0	3703887
Power pack & charging set Consisting of: rechargeable NiMH power supply T4 2.0, charging module and a single charger (for worldwide use)	3703889
Alkaline power pack T3/T4 (without alkaline batteries)	8322237
Alkaline batteries T3 (2 pcs.) for alkaline power pack 83 22 237 (~180 h operating time)	8322239

Charging accessories

Charging module	8318639
Charging set basic consisting of one charging module and a single power supply (worldwide use)	8320333
Power plug 100-240 VAC; 6.25 A, for charging up to 20 devices Adapter for power plug 8325736 is need in addition	8321850
Single charger (worldwide use) for max. 5 charging modules	8316994
Vehicle charging connecting cable 12 V / 24 V for charging module	4530057
Vehicle charger mounting kit for a Dräger X-am 1/2/5x00 charging module	8318779
Charging adapter for charging a rechargeable battery without X-am device	8326101

Calibration accessories

Calibration adapter	6806291
HCl test gas (10 ppm) for sensor 68 09 140	6812107
HCl test gas (25 ppm) for sensor 68 09 140	6812115
SO ₂ test gas (10 ppm) for sensor 68 09 170	6810645

Ordering Information

Accessories for measured value data logger and configuration

Dräger GasVision 7	8325646
Dräger CC-Vision Basic	free of charge: www.draeger.com/software
USB DIRA with USB cable, infrared communication adapter to USB	8317409

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