



# Dräger X-am® 5100

## Single-gas detector for HF, HCl, H<sub>2</sub>O<sub>2</sub> or hydrazine

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For manufacturing petrochemical products, pharmaceuticals, aseptic packing, or handling of rocket fuel: the Dräger X-am 5100 portable single-gas detector ensures safe handling of HF, HCl, H<sub>2</sub>O<sub>2</sub> or hydrazine – thanks to proven Dräger sensor technology and a device design which is perfectly customized to reactive gases.

# Benefits

## YOUR ADVANTAGES AT A GLANCE

- Continuous, precise and reliable measurement
- A special device design with direct gas entry provides fast sensor response and precise measurement data by preventing gas adsorption on the device housing
- Lightweight and robust
- Slip-proof and compact design Triple alarm: visual (360°), audible (multi-tone), vibration
- Easy to use: two-button operation and user-friendly menus
- Highly resistant to impacts, vibrations and electromagnetic radiation
- Operated using a T4 NiMH rechargeable battery.

# Technical Data

|                        |                                                                                                 |                                                                                    |
|------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Dimensions (H x W x D) | 48 x 130 x 44 mm (1.89 x 5.12 x 1.73 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 90 % RH                                                                      |
| Alarms                 | Visual                                                                                          | 360°                                                                               |
|                        | Audible                                                                                         | Multi-tone > 90 dB at 30 cm (1 ft)                                                 |
|                        | Vibration                                                                                       |                                                                                    |
| Ingress Protection     | IP 54                                                                                           |                                                                                    |
| Operating times        | ~ 150 h (NiMH rechargeable battery)                                                             |                                                                                    |
| Charging times         | < 4 h                                                                                           |                                                                                    |
| Data logger            | Retrieval using an infrared interface<br>> 1000 h at a recording interval of 1 value per minute |                                                                                    |
| Approvals              | ATEX                                                                                            | I M1 Ex ia I Ma<br>II 1G Ex ia IIC T4/T3 Ga<br>- 20 °C ≤ Ta ≤ + 55/40 °C           |
|                        | IECEx                                                                                           | Ex ia I Ma<br>Ex ia IIC T4/T3 Ga<br>- 20 °C ≤ Ta ≤ + 55/40 °C                      |
|                        | CSA                                                                                             | Class I, Div. 1, Groups A,B,C,D TC T4/T3<br>Class I, Zone 0, A/Ex ia IIC T4/T3 /Ga |
| CE-mark                | Electromagnetic compatibility<br>Directive 2004/108/EG<br>EN 50270:2006                         |                                                                                    |

# Ordering Information

## Dräger X-am 5100

83 22 750

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

Power supply and sensor selection must be specified at time of purchase.

| Description                                      | Measurement Range | Resolution | Response time (t <sub>90</sub> ) | Ordering no. |
|--------------------------------------------------|-------------------|------------|----------------------------------|--------------|
| DrägerSensor XS EC HF/HCl                        | 0 – 30 ppm        | 0.1 ppm    | 60 sec.*                         | 68 09 140    |
| DrägerSensor XS EC H <sub>2</sub> O <sub>2</sub> | 0 – 20 ppm        | 0.1 ppm    | 60 sec.                          | 68 09 170    |
| DrägerSensor XS EC Hydrazin                      | 0 – 3 ppm         | 0.01 ppm   | 180 sec.                         | 68 09 190    |

\*Response time (t<sub>50</sub>)

## Power supply units

|                                             |           |
|---------------------------------------------|-----------|
| NiMH power pack T4 (~ 150 h operating time) | 37 03 887 |
|---------------------------------------------|-----------|

## Charging accessories

|                                                                                                                                                          |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Charging module                                                                                                                                          | 83 18 639 |
| Rechargeable battery and charging technology set<br>Consisting of: NiMH power pack T4, charging module, single charger (worldwide) for 1 charging module | 37 03 889 |
| 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 <sub>2</sub> test gas (10 ppm) for sensor 68 09 170 | 45 97 050 |
| Stainless steel regulator                              | 68 13 104 |

## Accessories for measured value datalogger and configuration

|                                                                                    |           |
|------------------------------------------------------------------------------------|-----------|
| Dräger GasVision (license – software download available from Dräger software site) | 83 14 034 |
| Dräger CC-Vision (free download available from Dräger software site)               | freeware  |
| USB DIRA with USB cable, infrared communication adapter to USB                     | 83 17 409 |

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