

## Dräger X-am® 5600

Featuring an ergonomic, mobile phone design and innovative infrared sensor technology, the Dräger X-am® 5600 is the smallest gas detection instrument for the measurement of up to 6 gases. Ideal for personal monitoring applications, this robust and water-tight detector provides accurate, reliable measurements of explosive, combustible and toxic gases and vapors as well as oxygen.



### SMALL YET ROBUST

Small, light and easy to use - the robust and water-tight Dräger X-am 5600 is designed for single-handed operation in tough industrial environments. Water- and dust-proof according to IP 67 and with an integrated rubber boot, the device provides optimal functionality even under harsh conditions.

### DURABLE INFRARED TECHNOLOGY

Thanks to the high stability and a resistance to contamination, Dräger infrared sensors can generally be used for up to eight years. This advanced technology reduces the cost of ownership considerably because less replacement sensors are needed. In addition, a sensor calibration is only necessary every 12 months which reduces maintenance costs.

### SINGLE OR DUAL SENSOR – ACCURATE MEASUREMENT RESULTS

The new Dräger infrared sensors can be used for the measurement of explosive substances or CO<sub>2</sub>: The infrared sensor IR Ex allows the measurement of explosive, combustible hydrocarbons in the range of the lower explosive limit. With this sensor, measurements in the range of 0-100 Vol.-% for methane, propane and ethylene are also possible. The infrared sensor IR CO<sub>2</sub>, with

a measurement resolution of 0.01 Vol.-%, provides safe and exact measurements as well as a warning against toxic concentrations of carbon dioxide in the ambient air. For those applications where the reliable measurement of explosive substances and CO<sub>2</sub> is specifically needed, the advantages of both can be achieved by a dual sensor (Dual IR CO<sub>2</sub>/Ex).

### ALSO IN COMBINATION WITH HYDROGEN

Besides hydrocarbons, hydrogen can also be an explosive gas. Because sensors based on infrared technology do not warn against hydrogen explosion dangers, the Dräger X-am 5600 combines two sensor signals (Infrared Ex and electrochemical H<sub>2</sub>) for reliable hydrogen detection. The X-am 5600 provides the advantages of poison-free technology to be used in areas where, until now, only catalytic Ex sensors have been used.

### VARIOUS MONITORING POSSIBILITIES

Thanks to the combination of innovative infrared technology and the latest electrochemical Dräger XXS miniature sensors, this 1-to-6 gas detector reliably detects explosive, combustible and harmful concentrations of O<sub>2</sub>, Cl<sub>2</sub>, CO, CO<sub>2</sub>, H<sub>2</sub>, H<sub>2</sub>S, HCN, NH<sub>3</sub>, NO, NO<sub>2</sub>, PH<sub>3</sub>, SO<sub>2</sub> and organic vapors. With the PC software Dräger CC-Vision, the sensors



D-27784-2009

### Dräger X-am® 5600

Small, light and tough for single-handed detection of up to 6 gases.

can easily be exchanged, calibrated or converted to meet the needs of different applications.

**FLEXIBLE USE**

This small gas detection instrument is perfectly suited as a personal monitor. The simple two-button control panel allows for the intuitive use of the device. The gas inlets – on the upper and front side – provide optimal measurement accuracy even if they are inadvertently placed in a pocket or a gas inlet is covered.

An optional external pump which can be operated with hoses up to 20 m or 65 ft. in length is the perfect solution for pre-entry measurements in tanks or pipelines. To monitor entire areas, the Dräger X-am 5600 can be used in combination with the innovative Dräger X-zone 5000.

**SUITABLE FOR EX ZONE 0**

The small and reliable gas detector is suitable for use in areas classified as zone 0, which are areas where explosive atmospheres are always to be expected.

**SIMPLE SOLUTION FOR BUMP TESTS**

Simple, quick, and professional: From bump testing to complete documentation, users can choose from a range of practical, on-site solutions for optimal safety in every application. Both the Dräger E-Cal automatic test and calibration station and the Dräger Bump Test Station are ideal system extensions that save costs and time.



## ORDER INFORMATION

**Dräger X-am 5600**

Consisting of: basic instrument with an integrated data logger and manufacturer's and calibration certificates.

83 21 050

A functional instrument must include up to 4 sensors and a power supply unit.

| <b>Infrared-Sensors</b>  | <b>Measuring Range</b>   | <b>Resolution</b>  | <b>Response time (t<sub>90</sub>)</b> | <b>Order code</b> |
|--|--|--|---------------------------------------|-------------------|
| DrägerSensor Dual IR Ex/CO <sub>2</sub> <sup>1)</sup>  | 0 – 100 % LEL<br>0 – 100 Vol.-% Methane, Propane, Ethylene<br>0 – 5 Vol.-% CO <sub>2</sub> | 1 % LEL<br>0.1 Vol.-% CH <sub>4</sub><br>0.01 Vol.-% CO <sub>2</sub> | 20 sec.                               | 68 11 960         |
| DrägerSensor IR Ex <sup>1)</sup>   | 0 – 100 % LEL<br>0 – 100 Vol.-% Methane, Propane, Ethylene                                 | 1 % LEL<br>0.1 Vol.-% CH <sub>4</sub>                                | 20 sec.                               | 68 12 180         |
| DrägerSensor IR CO <sub>2</sub>  | 0 – 5 Vol.-% CO <sub>2</sub>   | 0.01 Vol.-% CO <sub>2</sub>  | 20 sec.                               | 68 12 190         |
| <b>Electrochemical Sensors</b>   |  |  |                                       |                   |
| DrägerSensor XXS O <sub>2</sub>  | 0 – 25 Vol.-%  | 0.1 Vol.-%   | 10 sec.                               | 68 10 881         |
| DrägerSensor XXS CO  | 0 – 2,000 ppm  | 1 ppm  | 25 sec.                               | 68 10 882         |
| DrägerSensor XXS CO HC   | 0 – 10,000 ppm   | 5 ppm  | 25 sec.                               | 68 12 010         |
| DrägerSensor XXS CO/H <sub>2</sub> compensated   | 0 – 2,000 ppm CO   | 2 ppm  | 25 sec.                               | 68 11 950         |
| DrägerSensor XXS H <sub>2</sub> S  | 0 – 100 ppm  | 1 ppm  | 15 sec.                               | 68 10 883         |
| DrägerSensor XXS H <sub>2</sub> S LC   | 0 – 100 ppm  | 0.1 ppm  | 15 sec.                               | 68 11 525         |
| DrägerSensor XXS H <sub>2</sub> S HC   | 0 – 1,000 ppm  | 2 ppm  | 15 sec.                               | 68 12 015         |
| DrägerSensor XXS CO/H <sub>2</sub> S   | 0 – 2,000 ppm CO / 0 – 200 ppm H <sub>2</sub> S  | 1 ppm H <sub>2</sub> S / 2 ppm CO                                    | 10 sec.                               | 68 11 410         |
| DrägerSensor XXS NO  | 0 – 200 ppm  | 0.5 ppm  | 20 sec.                               | 68 11 545         |
| DrägerSensor XXS NO <sub>2</sub>   | 0 – 50 ppm   | 0.1 ppm  | 15 sec.                               | 68 10 884         |
| DrägerSensor XXS SO <sub>2</sub>   | 0 – 50 ppm   | 0.1 ppm  | 15 sec.                               | 68 10 885         |
| DrägerSensor XXS PH <sub>3</sub>   | 0 – 20 ppm   | 0.01 ppm   | 10 sec.                               | 68 10 886         |
| DrägerSensor XXS PH <sub>3</sub> HC  | 0 – 1,000 ppm  | 1 ppm  | 10 sec.                               | 68 12 020         |
| DrägerSensor XXS HCN   | 0 – 50 ppm   | 0.1 ppm  | 10 sec.                               | 68 10 887         |
| DrägerSensor XXS NH <sub>3</sub>   | 0 – 300 ppm  | 1 ppm  | 20 sec.                               | 68 10 888         |
| DrägerSensor XXS CO <sub>2</sub>   | 0 – 5 Vol.-%   | 0.1 Vol.-%   | 30 sec.                               | 68 10 889         |
| DrägerSensor XXS Cl <sub>2</sub>   | 0 – 10 ppm   | 0.05 ppm   | 30 sec.                               | 68 10 890         |
| DrägerSensor XXS H <sub>2</sub>  | 0 – 2,000 ppm  | 5 ppm  | 20 sec.                               | 68 12 370         |
| DrägerSensor XXS H <sub>2</sub> HC   | 0 – 4 Vol.-%   | 0.01 Vol.-%  | 20 sec.                               | 68 12 025         |
| DrägerSensor XXS OV  | 0 – 200 ppm  | 0.5 ppm  | 100 sec.                              | 68 11 530         |
| DrägerSensor XXS OV-A  | 0 – 200 ppm  | 1 ppm  | 100 sec.                              | 68 11 535         |
| <b>Electrochemical Sensors with 5 years warranty</b>   |  |  |                                       |                   |
| DrägerSensor XXS E CO  | 0 – 2,000 ppm  | 1 ppm  | 25 sec.                               | 68 12 212         |
| DrägerSensor XXS E H <sub>2</sub> S  | 0 – 200 ppm  | 1 ppm  | 15 sec.                               | 68 12 213         |
| DrägerSensor XXS E O <sub>2</sub>  | 0 – 25 Vol.-%  | 0.1 Vol.-%   | 10 sec.                               | 68 12 211         |
| <sup>1)</sup> Special calibration for Ex sensors are available (standard setting: methane)   |  |  |                                       |                   |
| <b>Power supply units</b>  |  |  |                                       |                   |
| NiMH power pack T4   |  |  |                                       | 83 18 704         |
| Power pack & charging set consisting of: rechargeable NiMH power supply T4, charging module and a single charger (for worldwide use) |  |  |                                       | 83 18 785         |
| Alkaline power pack T3/T4 (without alkaline batteries)   |  |  |                                       | 83 18 703         |
| Alkaline batteries T4 (2 pcs.) for alkaline power supply 83 18 703   |  |  |                                       | 83 18 708         |
| NiMH rechargeable batteries T3 for alkaline power supply unit 83 18 703, charged externally  |  |  |                                       | 83 19 426         |
| <b>Charging accessories</b>  |  |  |                                       |                   |
| Charging module  |  |  |                                       | 83 18 639         |
| Charging set basic, consisting of one charging module and a single power supply (worldwide use)                                      |  |  |                                       | 83 20 333         |
| Power supply with connection cable (worldwide use) for max. 20 charging modules  |  |  |                                       | 83 15 805         |
| Single charger (worldwide use) for max. 5 charger modules  |  |  |                                       | 83 16 994         |
| Single charger (worldwide use) for max. 2 charger modules  |  |  |                                       | 83 15 635         |
| Car charging connection cable 12 / 24 V for a charging module  |  |  |                                       | 83 17 754         |
| Vehicle charger mounting kit for one car charging module   |  |  |                                       | 83 18 779         |
| <b>Pump accessories</b>  |  |  |                                       |                   |
| Dräger X-am 5600 external pump   |  |  |                                       | 83 19 400         |
| Hand pump adapter  |  |  |                                       | 83 19 195         |
| Confined space entry set, with an external pump and 3 m or 9 ft. viton hose  |  |  |                                       | 83 19 399         |
| Carrying case Dräger X-am 5600 external pump   |  |  |                                       | 83 19 385         |

| <b>Calibration accessories</b>   |           |
|--|-----------|
| Calibration cradle   | 83 18 752 |
| Dräger E-Cal module for Dräger X-am 5600   | 83 18 754 |
| Dräger Bump Test Station for Dräger X-am 5600, not including gas cylinder  | 83 19 131 |
| Dräger Bump Test Station for Dräger X-am 5600, complete with one test gas cylinder 58L (gas and concentration variable)  | 83 19 130 |
| Printer set for Dräger Bump Test Station consisting of: Dräger Mobile Printer, single charger, rechargeable NIMH batteries, USB connection cable, positioning aid, Dräger CC-Vision standard | 83 21 011 |
| Nonane Checker   | 83 20 080 |
| <b>Communication accessories</b>   |           |
| Dräger GasVision   | 83 14 034 |
| Dräger CC-Vision   | 64 08 515 |
| Leather carrying case  | 83 18 755 |
| Carrying case for charging accessories, probes, external pump, hose and gas cylinder (without content)   | 83 20 467 |
| USB DIRA with USB cable, communication adapter infrared to USB   | 83 17 409 |
| PC communication set 1 with USB port, Dräger CC-Vision incl. registration software   | 83 18 761 |
| PC communication set 2 with USB port, Dräger CC-Vision incl. registration software and barcode reader  | 83 18 762 |

## TECHNICAL DATA

|                        |  |
|------------------------|--|
| Dimensions (W x H x D) | 47 x 130 x 44 mm; 1.85 x 5.12 x 1.73 inches  |
| Weight                 | 250 g; 8.8 oz.   |
| Ambient conditions     | Temperature -20 to +50 °C; -4 to +122 °F<br>Pressure 700 to 1300 mbar; 20.7 to 38.4 inch Hg<br>Humidity 10 to 95% RH   |
| Alarms                 | Visual 360°<br>Audible Multi-tone > 90 dB at 30 cm; 1 ft.<br>Vibration   |
| Ingress Protection     | IP 67  |
| Operating time         | > 10 hours   |
| Charging time          | < 4 hours  |
| Data logger            | Can be read out via Infrared > 1000 hours with 6 gases and a recording interval of 1 value per minute  |
| Pump operation         | Maximum hose length 20 m; 65 ft.   |
| Approvals (pending)    | ATEX I M1 Ex ia I<br>II 1G Ex ia IIC T4/T3 (Zone 0)<br>UL Class I & II, Div. 1 Group A, B, C, D, E, F, G T.-Code T4/T3<br>CSA Class I, Div. 1 Group A, B, C, D T.-Code T4/T3<br>IEC Ma Ex ia I<br>Ga Ex ia IIC T4/T3 |

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