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New portable gas warning instrument Dräger X-am 7000:
For the continuous measurement of up to five gases

Dräger Safety AG & Co. KGaA (Lübeck) presents the X-am 7000, another new portable multigas warning instrument. It can be fitted with three electrochemical and two infrared optical or catalytic sensors and can simultaneously measure up to five gases. A choice of over 25 sensors allows detection of more than 100 gases and vapours.
The Dräger X-am 7000 is not only dust and splash-proof, but also completely water-resistant according to the ingress protection rate IP67. Water-repellent membranes protect the sensors if they are dropped into water.
Powerful and efficient rechargeable batteries ensure long operating times, while intelligent battery management ensures a long battery life.
The high-delivery pump can draw in sample gas through a hose up to 45 metres in length.
X-am 7000 was specially developed for monitoring tasks in local waste water disposal, the natural oil and gas industry, the chemicals industry, the offshore industry and for use by fire brigades, and is therefore suitable for applications in all kinds of different areas.

<u>Flexibility thanks to wide range of sensors</u>
All sensors used in the Dräger X-am 7000 are intelligent and are recognized automatically by the instrument (plug-and-play). The smart sensor technology allows many different types of data (gas identification, alarm functions, measurement data, temperature calculation etc.) to be

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stored in the EEPROM inside the sensor. The sensors are pre-calibrated and can therefore be replaced easily by the customer.

Catalytic sensors

Two new catalytic sensors allow measurements to be performed either by heat-of-reaction (LEL range) or by heat-of-reaction and thermal conductivity (LEL range and % by volume range). The tough, shock-resistant sensors are protected by a special H_2S filter to reduce contamination with H_2S.

Infrared sensors

Infrared sensors have no moving parts and have gold-protected sensor optics which are resistant to poisoning even in tough industrial environments. Another striking feature of this type of sensor is that it offers long calibration intervals (six months), and extremely long sensor lifetimes with a five-year guarantee.

Electrochemical sensors

Dräger sensors offer customers a long service life with a guarantee of up to five years, regardless of the measured gas concentrations.
Extended calibration intervals of up to 12 months give the customer a significant advantage by minimizing costs of ownership. Dräger sensors are synonymous with rapid response times, low cross-sensitivities, a high level of measurement accuracy and a long service life.

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New leak detection function

A new flexible goose-neck probe makes it easier to detect leaks, e.g. in pipelines, flanges, gate valves and valves. When the instrument is in leak detection mode, a ppm bar graph appears on the display, showing the changes in concentration in steps of 50 ppm. The instrument generates ascending or descending tone frequencies – similar to a Geiger counter – which reflect the detected gas concentration. In an alarm situation the Dräger X-am 7000 automatically returns to its normal operating mode.

Approvals

The Dräger X-am 7000 features a declaration of conformity with EC type-examination certificate in accordance with the provisions of ATEX Directive 94/9/EC, and protection classes II 2G EEx ia d IIC T4 and I M2 EEx ia d I. The instrument's electromagnetic compatibility has been tested in accordance with Directive 89/336/EEC, and the instrument is CE marked. For the USA, the new instrument is UL approved as Class I, Div 1, Group A, B, C and D. It can be used in a temperature range from -20 to +60 °C.

Dräger Safety AG & Co. KGaA, Lübeck, Dräger is one of the world's leading manufacturers of personal protection and gas detection technology, and a systems supplier of complete safety services (sales in 2002: Euro 471,1 million, employees: 3,300).

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