



Dräger catalytic Ex sensors

Sensors for portable gas detectors

The catalytic DrägerSensors are particularly shock-resistant and have excellent resistance to poisoning. The high product quality and long-term stability ensure low operating costs. Fast response times provide a reliable warning of gas hazards.

Benefits

Our own design

We develop these sensors with our own engineering knowledge. This way we can assure quality and accurate measurement. This allows them to be utilized to the fullest in combination with our in-house developed Dräger gas detectors.

Shock resistance

The CatEx SR (SR = shock resistant) DrägerSensor is characterised by its particular shock resistance. A fall from great height that exceeds the standard requirements has no effect on the sensor signal. The usual adjustment of the zero point and sensitivity required after an impact can be omitted, which saves time and effort.¹

¹ Adjustment is only required if a different fresh air display than 0 is shown after impact from high falling heights.

Durable and resistant to poisoning by sensor poisons

Hydrogen sulphide and silicone are known catalytic poisons that may be present in environments with explosive gas. Thanks to an improved pellistor composition, the sensors are highly resistant to poisoning from these substances. The high resistance to poisoning leads to exceptional long-term stability, thus ensuring low operating costs.

Vapour sensitivity

Unknown gas hazards and higher hydrocarbons pose a particular challenge for the sensitivity display of catalytic sensors. The new CatEx DrägerSensors are particularly sensitive. The detection of all hydrocarbons (from methane to nonane) has been certified in a measurement performance certification for the Dräger X-am 2500/5000 and X-am 3500/8000 device series.¹

¹ Nonane-suitable pump adapter required.

Versatile measurement, simple adjustment

Dräger's catalytic sensors are suitable for providing warning of known and unknown flammable gas hazards. The sensors provide the option of setting the device for a variety of different combustible gases or vapours, including hydrogen. If several flammable substances to which the sensor reacts differently must be measured, a substitute gas adjustment is recommended. Different test gases can be used for the adjustment using a simple device function. The necessary calculations are performed by the gas measuring device. Manual conversions are not necessary.

Rapid response times

Rapid warning for explosive gases and vapours is vital. Our CatEx sensors' fast response times minimise the timespan between danger and warning.

Fast adjustment

With the DrägerSensor CatEx SR, fresh air adjustment can be performed after a maximum of only 60 seconds after switching on the device. This saves valuable time and lets you perform a fresh air adjustment shortly before the shift, for example.

Benefits

From the LEL to 100 vol%

Our catalytic sensors are suitable for measurements in the lower explosion limit range. For methane, measurement up to 100 vol% is also possible.

The X-am 5800 or X-am 8000 features the option to automatically switch the measuring ranges, making it easier to read results when monitoring for high methane concentrations: if the CatEx sensor measures values above 100% LEL, the display switches to the range of 0 to 100 vol%.

Optimised for hydrogen

With the DrägerSensor CatEx H₂ 100, Dräger also offers a sensor specially optimised for hydrogen applications. With this sensor, measurements can be carried out across the entire measuring range, from a few ppm or %LEL up to 100 vol%. Here too, the option to automatically switch the measuring ranges on the X-am 8000 makes work easier. A special measuring gas (h2L) for leak detection allows ppm measurements up to 40,000 ppm with a detection limit upwards of 40 ppm.

System Components

D-3409-2022



Dräger X-am 2600

The X-am 2600 multi-gas detector measures flammable gases, oxygen, carbon monoxide and hydrogen sulphide. The Dräger Gas Detection Connect software offers live data transmission and powerful fleet management. The instrument has been optimised for personal monitoring in diffusion mode and ensures a high degree of safety with extremely low operating costs. The device comes with an initial three-year service period, which can be extended as needed with additional licences.

D-3411-2022



Dräger X-am 2800

The X-am 2800 multi-gas detector measures up to four gases and is equipped with a particularly shock-resistant CatEx sensor. With the Dräger Gas Detection Connect software, it offers live data transmission and powerful fleet management. Designed for personal monitoring, the X-am 2800 offers the highest level of safety at a low cost of ownership.

D-9538-2022



Dräger X-am 5800

The X-am 5800 multi-gas detector measures up to six gases and is equipped with a particularly shock-resistant CatEx sensor. With the Dräger Gas Detection Connect software, it offers live data transmission and powerful asset management. Designed for personal monitoring, the X-am 5800 offers you the highest level of safety at a low cost of ownership.

D-2754-2018



Dräger X-am 2500

The Dräger X-am 2500 was especially developed for use as personal protection. The 1 to 4 gas detector reliably detects combustible gases and vapours, as well as O₂, CO, H₂S, NO₂ and SO₂. Reliable and fully mature measuring technology, durable sensors and easy handling ensure a high degree of safety with extremely low operating costs.

System Components

D-14325-2017



Dräger X-am 5000

The Dräger X-am 5000 belongs to a generation of gas detectors, developed especially for personal monitoring applications. This 1- to 5-gas detector reliably measures combustible gases and vapors as well as oxygen and harmful concentrations of toxic gases, organic vapors, Odorant and Amine.

D-406-2018



Dräger X-am 3500

The Dräger X-am 3500 was especially designed for clearance measurements. The 1 to 4 gas detector reliably detects flammable gases and vapours as well as O₂, CO, H₂S, NO₂ and SO₂. The innovative signalling design and extensive range of accessories ensure optimum safety and easy handling.

D-6491-2017



Dräger X-am 8000

Clearance measurement was never this easy and convenient: The 1 to 7 gas detector detects toxic and flammable gases as well as vapours and oxygen all at once – either in pump or diffusion mode. Innovative signalling design and handy assistant functions ensure complete safety throughout the process.

Related Products

D-6151-2025



Dräger Infrared Sensors

Dräger infrared sensors deliver optimal measurement results and are unaffected by sensor poisons. The long service life of these sensors results in hardly any follow-up costs. You can also use Dräger infrared sensors to take Ex and CO₂ measurements simultaneously.

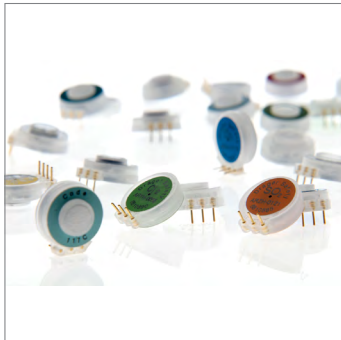
D-6153-2025



PID sensors

PID sensors are the ideal choice for detecting low concentrations of volatile organic compounds. A PID (photoionization detector) is used to measure hazardous substance groups or can even be adjusted to measure individual substances.

D-12191-2010



DrägerSensor XXS

Dräger has developed miniature electrochemical sensors specially for the Dräger Pac, X-am 1/2/5 and X-am 8000 generation. The sensors detect many different gases and vapours. They are also very reliable and stable over the long-term, thereby reducing your operating costs.

Ordering Information

Description	Measurement range	Measurement	Device	Order no.
DrägerSensorCatEx 125 PR	0 - 100% LEL or 0 - 100 vol% CH ₄	Gases and vapours	X-am 2500, X-am 5000, X-am 3500, X-am 8000	6812950
DrägerSensorCatEx 125 PR-Gas	0 - 100% LEL or 0 - 100 vol% CH ₄	Gases	X-am 2500, X-am 5000, X-am 8000	6813080
DrägerSensorCatEx SR	0 - 100% LEL or 0 - 100 vol% CH ₄	Gases and vapours	X-am 2600, X-am 2800, X-am 5800	6851900
DrägerSensor CatEx H ₂ 100	0 - 40,000 ppm H ₂ 0 - 100% LEL or 0 - 100 vol% H ₂	Hydrogen	X-am 8000	3729050

SR = shock resistant

PR = poison resistant

Detailed technical data and a list of the substances stored in the respective sensor data set can be found in the DrägerSensor and Portable Instruments Handbook on the Dräger website (www.draeger.com/sensorhandbook).

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