

Dräger Infrared Sensors DrägerSensors

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.



Benefits

Low operational costs thanks to long service life

The long service life of this type of sensor (anticipated length of use ca. 8 years) as well as its reduced drift and 12-month calibration interval result in low operational costs.

Extremely precise and impervious to sensor poisons

The infrared sensor technology distinguishes itself by its high level of accuracy. Combined with the imperviousness to sensor poisons, they enable the detection of gases and vapours in a wide range of application areas.

Measurements in extraordinary conditions

Measuring explosive gases and vapours in environments with hydrogen sulphide and silicones, as well as in inert atmospheres, has no impact on the performance of this sensor.

Simultaneous Ex and CO₂ measurement

Depending on the application, it is necessary to measure explosive gases and monitor carbon dioxide concentrations simultaneously, e.g. in the sewage sector. For this, only one sensor is needed – the Dual IR-Ex/CO₂ sensor fulfils both measurement tasks. This increases your flexibility when configuring the gas warning device.

Our own design

The sensor set-up, selection of detectors and type of gas ingress are just a few of the factors that have a direct influence on the measuring performance of an IR sensor. Developing the sensors ourselves gives Dräger the opportunity to optimise these parameters, so they fulfil the requirements of various applications, e.g. personal monitoring, clearance measurements and leak detection.

From LEL to 100 vol. %

The infrared Ex sensors can be used for the most diverse measurement tasks: in the range of the lower explosive limit and also for measurements up to 100 vol. %. The IR measuring method can also be used for carbon dioxide in the range of 0 – 5 vol. % CO₂. Dräger offers both types (Ex/CO₂) as single sensors as well as an application-optimised dual sensor.

System Components

D-27784-2009



Dräger X-am® 5600

Featuring an ergonomic 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.

ST-67-2006



Dräger X-am® 7000

Dräger X-am® 7000 is the solution for the simultaneous and continuous measurement of up to five gases. It is the ideal companion in a variety of applications where the reliable detection of oxygen, toxic and combustible gases and vapors are necessary.

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-27736-2017

Dräger Catalytic Ex-Sensors

High product quality, low operational costs: Thanks to DrägerSensor CatEx PR technology, our sensors are resistant to poisoning and particularly stable over the long-term. They also deliver fast response times for rapid warnings of gas hazards.



D-13891-2017

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.



ST-299-2001

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.



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	Measuring range	Device	Order no.
DrägerSensor Dual IR Ex / CO ₂	0 – 100 % LEL or 0 – 100 Vol.-% CH ₄ 0 – 5 Vol.-% CO ₂	X-am® 2500, X-am® 5000, X-am® 8000	68 11 960
DrägerSensor Dual IR Ex	0 – 100 % LEL or 0 – 100 Vol.-% CH ₄	X-am® 2500, X-am® 5000, X-am® 8000	68 12 180
DrägerSensor Dual IR CO ₂	0 – 5 Vol.-% CO ₂	X-am® 2500, X-am® 5000, X-am® 8000	68 12 190
DrägerSensor Smart IR Ex	0 – 100 % LEL or 0 – 100 Vol.-% CH ₄	X-am® 7000	68 10 460
DrägerSensor Smart IR CO ₂	0 – 5 Vol.-% CO ₂	X-am® 7000	68 10 590
DrägerSensor Smart IR CO ₂ HC	0 – 100 Vol.-% CO ₂	X-am® 7000	68 10 599

Notes

Not all products, features, or services are for sale in all countries.
Mentioned Trademarks are only registered in certain countries and not necessarily in the country in which this material is released. Go to www.draeger.com/trademarks to find the current status.

CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
www.draeger.com

REGION DACH

Dräger Safety AG & Co. KGaA
Revalstraße 1
23560 Lübeck, Germany
Tel +49 451 882 0
Fax +49 451 882 2080
info@draeger.com

REGION EUROPE

Dräger Safety AG & Co. KGaA
Revalstraße 1
23560 Lübeck, Germany
Tel +49 451 882 0
Fax +49 451 882 2080
info@draeger.com

REGION MIDDLE EAST, AFRICA

Dräger Safety AG & Co. KGaA
Branch Office
P.O. Box 505108
Dubai, United Arab Emirates
Tel +971 4 4294 600
Fax +971 4 4294 699
contactuae@draeger.com

REGION ASIA PACIFIC

Draeger Singapore Pte. Ltd.
25 International Business Park
#04-20/21 German Centre
Singapore 609916
Tel +65 6308 9400
Fax +65 6308 9401
asia.pacific@draeger.com

REGION CENTRAL AND SOUTH AMERICA

Dräger Panama S. de R.L.
59 East Street, Nuevo Paitilla
House 30, San Francisco Town
Panama City, Panama
Tel +507 377 9100
Fax +507 377 9130
servicioalcliente@draeger.com

Locate your Regional Sales
Representative at:
www.draeger.com/contact

