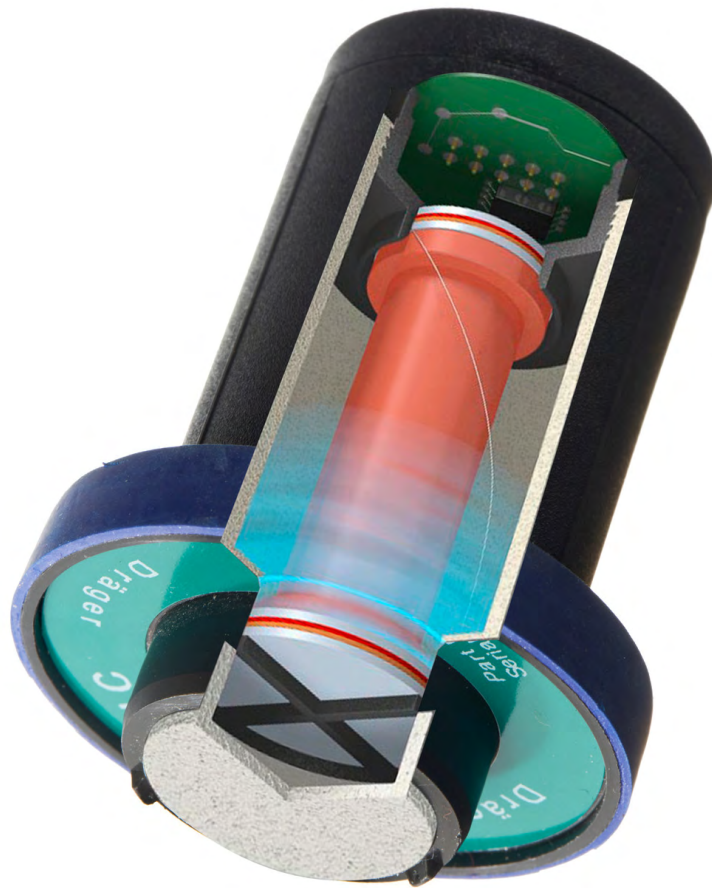


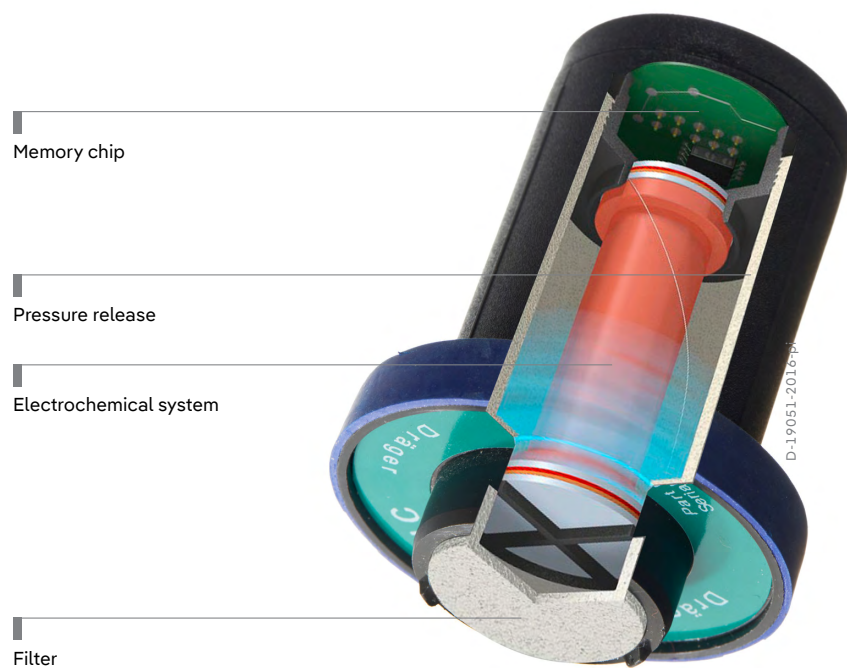


Electrochemical DrägerSensor

Sensor for fixed gas detectors

Fast response, high accuracy, great stability, long life. Electrochemical DrägerSensors offer all these benefits. You can use the robust and long-life sensors for the selective measurement of the smallest concentrations of toxic gases and oxygen in ambient air.

Electrochemical DrägerSensor



Benefits

Long lifetime

The electrochemical are designed to provide a reliable und stable measurement function over a long period of time. The use of resistant plastics, such as PTFE, and the purest catalysts make this possible. Additionally, a huge electrolytic reservoir and large electrode areas provide sufficient reserves for a long lifetime. The construction of the DrägerSensors offers you long stability and a low age-related drift.

Ready for immediate use

All DrägerSensors are factory calibrated with the target gas. These values are saved in the internal, electronic memory. You can use the sensors in the field immediately. For some sensors other tagret gases can be selected from the internal gas library.

Comprehensive range of applications

All sensors have an internal temperature sensor. Between -40 °C and +65 °C, the temperature influence is compensated for zero and sensitivity. The patented internal pressure compensation balances adverse ambient conditions, such as humidity changes or barometric variation. Due to this fact, you can use the sensors even in high or low pressure. For some sensors you can reduce the disturbing influence of cross-sensitivities by combining selective filters.

Performance features

- Low detection limits
- Optimised selectivity
- Excellent accuracy of measurements
- Fast response
- Comprehensive self-diagnosis options
- It is possible to choose between oxygen sensors for partial pressure measurement or volume percent measurement
- Sensors with organic electrolyte for detection limits in lower ppb range
- Acid gas sensor AC with unlimited lifetime, due to refillable electrolyte

System Components

ST-3812-2003



Dräger Polytron 7000

The Dräger Polytron 7000 gas detector can satisfy many toxic and oxygen gas measurement applications on a single platform. With its innovative modular concept, the Dräger Polytron 7000 offers the flexibility to configure the transmitter to fit your exact application.

ST-3811-2003



Dräger Polytron 3000

The Dräger Polytron 3000 is an intrinsically safe gas detector for the continuous monitoring of toxic gases and oxygen in ambient air. It is the part of a new generation of gas detectors developed on a modular platform. Communication to the central control system is done via a 4 to 20 mA signal.

D-2947-2018



Dräger Polytron 8100 EC

The Polytron 8100 EC is Dräger's top of the line explosion-proof transmitter for the detection of toxic gases or oxygen. It uses a high performance plug and play electrochemical DrägerSensor to detect a specific gas. Besides having a 3-wire 4 to 20 mA analog output with relays, it also offers HART, Modbus and Fieldbus protocol, making it compatible with most control systems.

D-158-2016



Dräger Polytron 5100 EC

The Dräger Polytron 5100 EC is a cost-effective explosion-proof transmitter for the detection of toxic gases or oxygen in standard applications. It uses a high performance plug-and-play electrochemical DrägerSensor to detect a specific gas. A 2- or 3-wire 4 to 20 mA output with relays makes it compatible with most control systems.

System Components

D-4785-2017



Dust filter

This hydrophobic dust filter for electrochemical DrägerSensors (see also the corresponding sensor data specification).

D-4789-2017



Selective filter

Selective filters absorb interfering gases from the ambient air. They are located in the sensor opening of the DrägerSensor and can easily be replaced if worn out.

ST-5676-2006



Viton calibration adapter

The flexible, soft calibration adapter, made of Viton, is used for gassing during zero point test and when calibrating electrochemical DrägerSensors.

Related Products

ST-8821-2005



DrägerSensor IR

Upgrade from catalytic bead to infrared technology with ease using the DrägerSensor IR. The Sensor IR can replace catalytic ex-sensors (pellistors) from the majority of manufacturers without replacing controllers, cables, junction boxes or control systems.

D-10088-2018



Catalytic Bead DrägerSensor

The DrägerSensor ... DQ detects flammable gases and vapours such as hydrogen. Due to the double-detector compensation method, the catalytic sensor is particularly long-term stable. The wire mesh at the gas inlet serves as a flame barrier. So it ensures explosion protection at the same time short response time.

Ordering Information

Target gas	DrägerSensor	Part number	Detection limit	max. range	Comment
			Vol%	Vol%	
Oxygen	O ₂	6809720	0.5	100	partial pressure
Oxygen	O ₂ LS	6809630	0.5	25	

Target gas	DrägerSensor	Part number	Detection limit	max. range	Comment
			ppm	ppm	additional gases
Ammonia	NH ₃ TH	6800055	10	10,000	
Ammonia	NH ₃ TL	6813095	1	300	amines
Ammonia	NH ₃ FL	6813260	1	300	
Ammonia	NH ₃ HC	6809645	30	1,000	
Ammonia	NH ₃ LC	6809680	5	300	amines
Carbon monoxide	CO LS	6809620	10	5,000	
Carbon monoxide	CO LH	6812570	15	300	
Carbon monoxide	CO	6809605	5	1,000	
Chlorine	Cl ₂	6809665	0.05	100	halogene
Ethylene oxide	OV1	6810740	5	200	organic vapours
Ethylene oxide	OV2	6810745	5	100	organic vapours
Hydrazine	Hydrazin	6810180	0.02	5	derivitives
Hydrogen	H ₂	6809685	15	3,000	
Hydrogen chloride	AC	6810595	0,5	30	acidic compounds
Hydrogen chloride	HCl	6809640	1	100	halides
Hydrogen cyanide	HCN LC	6813200	0.1	50	
Hydrogen peroxide	H ₂ O ₂ HC	6809675	100	7,000	
Hydrogen peroxide	H ₂ O ₂ LC	6809705	0.1	300	
Hydrogen sulfide	H ₂ S HC	6809710	10	1,000	
Hydrogen sulfide	H ₂ S LC	6809610	1	100	mercaptane
Hydrogen sulfide	H ₂ S	6810435	0.5	100	
Hydrogen sulfide	SensorAlive H ₂ S	6814014	0.5	100	
Nitrogen dioxide	NO ₂	6809655	0.3	100	
Nitrogen dioxide	NO ₂ LC	6813205	0.05	20	
Nitrogen monoxide	NO	6809625	3	200	
Ozone	Ozon	6814005	0.02	5	
Phosgene	COCl ₂	6809930	0.05	20	
Phosphine	Hydride	6809635	0.03	20	hydrides
Phosphine	PH ₃ / ASH ₃	6809695	0.02	20	
Phosphine	Hydride SC	6809980	0.01	1	hydrides
Sulfur dioxide	SO ₂	6809660	0.5	100	

Ordering Information

Accessories

Dust filter	6809595
Dust filter	6812224
Selective filter A2F (CO, CO LS, H ₂)	6809684
Selective filter BF	6809653
Selective filter D3F	6812435
Selective filter K2F (COCl ₂)	6809933
Selective filter NF (HCl)	6809643
Selective filter HSF (Hydride)	6809862
Selective filter MF (PH ₃ , AsH ₃)	6809638
Selective filter K1F (SO ₂)	6809663
Viton® Calibration adapter	6810536
Viton® is a registered trademark of the DuPont company	

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