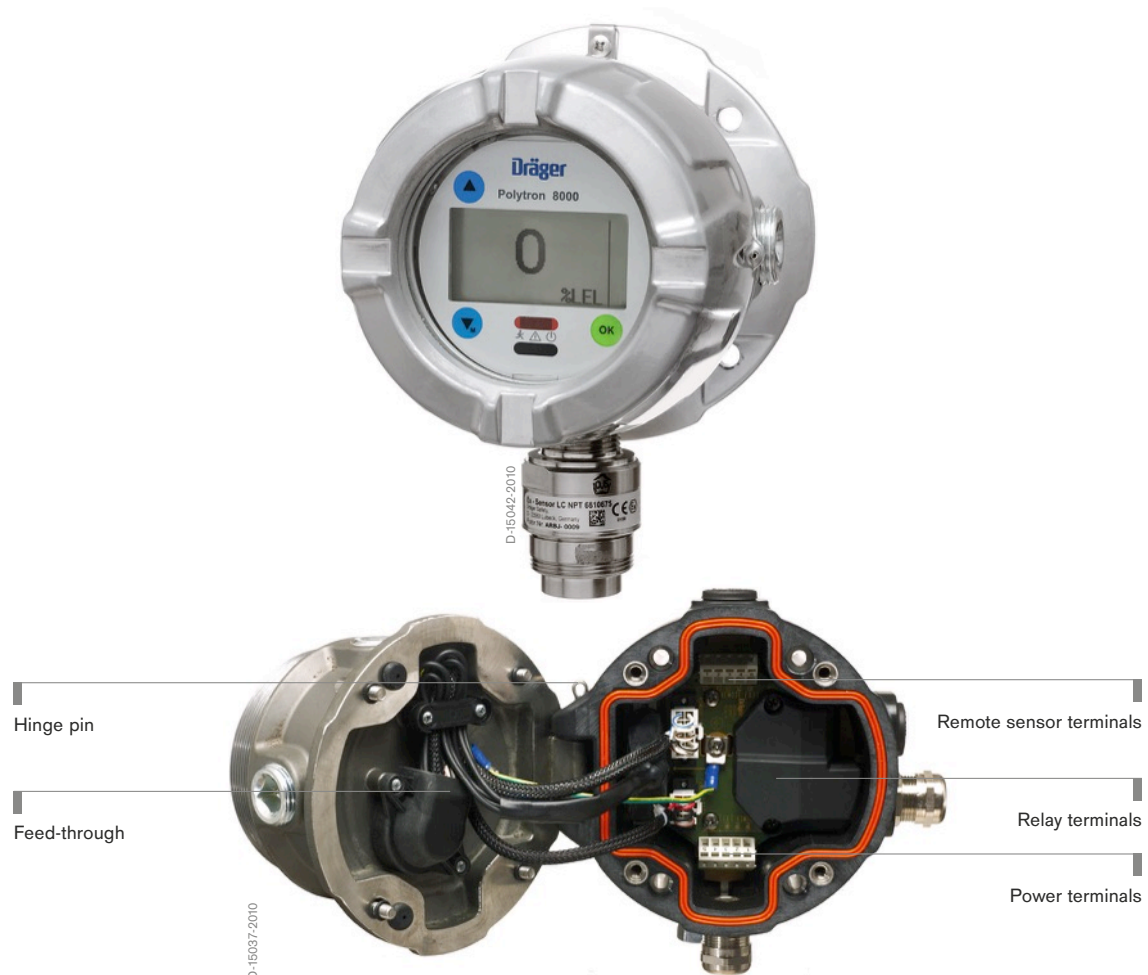


Dräger Polytron® 8200 Stationary gas detector (CatEx)

Quick, reliable and cost-effective detection of combustible gases and vapours in the ambient air: the microprocessor-based transmitter is the result of more than 40 years of experience in measurement technology. In addition, the Polytron® 8200 can also be integrated into your digital fieldbus system, thus providing additional diagnostic functions.



Benefits

Simple instrument management thanks to digital communication

With its HART® ability, the Dräger Polytron 8200 allows remote access using the Dräger PolySoft software for the quick and convenient evaluation of the instrument status. Integration in existing management systems (e.g. PactWare) is also possible using DTM. In addition, fieldbus systems such as Foundation Fieldbus or Profibus are supported by corresponding interfaces.

Drägersensor Ex...DD – quick and stable

The integrated type DD gas sensor functions according to the heat-of-combustion principle. You'll be surprised by its long-term stability as well as by its poison resistance which is just as excellent – some of the reasons for its increased life time. Thanks to the innovative gas access design, the sensor responds to gas within seconds. This allows you to quickly take counter-measures, thus preventing a potentially explosive atmosphere.

Proven – and still getting better: Dräger measurement technology

Dräger has been developing and manufacturing sensors and gas detectors for industrial use for more than 40 years. And with each new instrument generation, we drive our measurement technology a bit further. With the Polytron 8200, you will definitely benefit from this experience and power of innovation. For the more sophisticated DrägerSensor Ex...DD is also traditionally manufactured by Dräger.

Optional: Three relays for controlling external equipment

On request, the Dräger Polytron 8200 can be equipped with three integrated relays. This enables you to use it as an independent gas detection system with two arbitrarily adjustable concentration alarms and one fault alarm. Audio alarms, signal lights, or similar devices can, thus, be controlled locally – without an additional cable between the transmitter and a central controller. The sensor signal can be evaluated using the 4-to-20-mA signal.

Optional: Two mounting sets for easy flange-mounting

The housing has four mounting holes. Two different mounting sets are available for installing the Polytron 8200: a duct-mount and a pipe-mount set. This means that the transmitter can be easily installed anywhere – e.g., on a smooth wall, a pipe or an exhaust duct.

Quick and easy wiring

The electronics and the bezel form a single unit. Simply pull them out of the housing. Then insert the three-wire cable into the terminals. Finally, plug the terminal block into the PCB.

Benefits

Further advantages:

- Easy and cost-effective: one-man calibration
- Available as flameproof or increased safety version
- Aluminium or 316 L stainless steel housing for the most extreme industrial conditions
- Extremely user-friendly software thanks to a minimum number of menu items
- Backlit display: easy to read, even in the dark and without a flash light
- Traffic light status indicator (green = no danger, yellow = error, flashing red = gas alarm)
- Can also be used as an early warning system (0–10 % LEL) for ammonia
- Matrix display allows the flexible setting of measuring ranges and units
- DD version: SIL 2 certified by the German TÜV Süd

System components



D-1119-2010

Catalytic Bead DrägerSensors

The Dräger Catalytic Bead Sensors is designed for the continuous monitoring and detection of combustible gases and vapours – with different versions for different applications or concentrations.



2-589-95

Dräger REGARD® control system

Tried and tested thousands of times and infinitely flexible. The modular Regard® control system can be individually adapted to any monitoring task. Suitable for SIL 2 systems, the Regard® system is also ATEX approved, and meets EMC directive standards.

System components



D-27777-2009

Dräger REGARD® 3900

The Dräger REGARD® 3900 is a standalone, self contained control system for the detection of Toxic, Oxygen and Ex hazards. The control system is fully configurable between 1 and 16 channels, depending upon the type and quantity of input/output boards installed.



ST-3335-2004

Dräger REGARD-1

The Dräger REGARD-1 is a standalone, self contained single channel control system for the detection of Toxic, Oxygen and Ex hazards. The control system is fully configurable for a single input from either a 4 to 20 mA transmitter or a Dräger Polytron SE Ex measuring head.

Accessories



ST-5673-2006

Magnetic wand

Related Products



D-15005-2010

Dräger Polytron® 5200

Quick, reliable and cost-effective detection of combustible gases and vapors in ambient air: the microprocessor-based transmitter is the result of more than 40 years of experience in measurement technology. In addition, the CatEx sensor of the Polytron® 5200 DD can be replaced with a more poison-resistant IR sensor, upgrading the Polytron® 5200 DD to an IR device (Polytron® 5310).



D-11158-2011

Dräger PEX 3000

The transmitter Dräger PEX 3000 detects flammable gases and vapors in concentrations below their Lower Explosion Limit. Its DD-sensor provides a very long-term stable measuring signal and responds to gas in only a few seconds.

Technical Data

DRÄGER POLYTRON® 8200

Type	Flameproof 'd' or combined increased safety 'd/e' transmitter			
Gases	Different combustible gases and vapours (depending on the sensor used)			
Measuring ranges	DD:	0 to 100 % LEL		
	LC:	0 to 10 % LEL		
Display	Backlit graphic LCD; 3 status LEDs (green/yellow/red)			
Electrical data	Analogue signal output	Normal operation	4 to 20 mA	
		Maintenance	Steady 3.4 mA or 4 mA ± 1 mA 1 Hz modulation; user selectable	
		Fault	< 1.2 mA	
	Digital signal output	HART®		
	Supply Voltage	10 to 30 VDC, 3-wire		
	Relay rating (option)	2 alarm, 1 fault relay, SPDT 5 A @ 230 VAC, 5 A @ 30 VDC, resistive load		
	Ambient conditions (see also sensor data sheet)	Temperature	-40 to + 176 °F / -40 to + 80 °C	
Pressure		20.7 to 38.4 inch Hg / 700 to 1300 mbar		
Humidity		0 to 100 % RH, non- condensing		
Enclosure	Transmitter housing	Epoxy-coated copper free aluminum or 316L stainless steel		
	Enclosure rating	NEMA 4X & 7, IP65/66/67		
	Cable entry	¼" NPT female conduit or M20 cable gland		
	Size (l x w x d, approx.)	without Docking Station	7.0" × 5.8" × 5.1" / 180 × 150 × 130 mm	
		with Docking Station	7.3" × 7.1" × 7.4" / 185 × 180 × 190 mm	
	Weight (approx.)	without Docking Station, aluminum	4.9 lbs / 2.2 kg	
		without Docking Station, 316 stainless steel	8.8 lbs / 4.0 kg	
with Docking Station, aluminum		7.7 lbs / 3.5 kg		
with Docking Station, 316 stainless steel		11.9 lbs / 5.4 kg		
Approvals*)	UL **)	Class I, Div 1, Groups A, B, C, D; Class II, Div 1, Groups E, F, G Class I, Zone 1, Group IIC; T-Code T6 / T4		
	CSA	Class I, Div 1, Groups A, B, C, D Class I, Zone 1, Group IIC; T-Code T6 / T4		
	IECEX	Ex d IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80 °C; 'd' version Ex de IIC T6/T4 Gb,		

Technical Data

ATEX	-40 ≤ Ta ≤ +40/+80 °C; 'e' version; Ex tb IIIC T80/130 °C Db II 2G Ex d IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80 °C; 'd' version II 2G Ex de IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80 °C; 'e' version; II 2D Ex tb IIIC T80/130 °C Db
CE markings	ATEX (directive 94/9/EC) Electromagnetic compatibility (Directive 2004/108/EC) Low voltage (directive 2006/95/EC)

*) Dräger Polytron® 8200 LC and all Docking Station versions are only ATEX / IECEx approved.

**) With relays Ta ≤ +70 °C

Ordering Information

DRÄGER POLYTRON® 8200 DD AND DRÄGER POLYTRON® 8200 LC

	Aluminium 'd'	SS316L 'd'	Aluminium 'e'	SS316L 'e'
Without relays (DD)	45 44 439	45 44 448	45 44 457**)	45 44 466**)
Without relays (LC)	45 44 475	45 44 484	45 44 493**)	45 44 502**)
With relays (DD)	45 44 440	45 44 449	45 44 458***)	45 44 467***)
With relays (LC)	45 44 476	45 44 485	45 44 494***)	45 44 503***)
Remote version w/o relays (DD)			45 44 511*)	45 44 520*)
Remote version w/o relays (LC)			45 44 529*)	45 44 538*)
Remote version w/ relays (DD)			45 44 512*)	45 44 521*)
Remote version w/ relays (LC)			45 44 530*)	45 44 539*)

*) Order respective Sensing Head Polytron® SE Ex Remote 'e' Version and Docking Station 68 12 275 separately.

**) Order Docking Station 68 12 420 for power only wires separately.

***) Order Docking Station 68 12 275 for power and/or relay wires separately.

Magnetic wand for menu access (blue body, white logo)	45 44 101
Docking Station Power only version (includes 1 cable gland)	68 12 420
Docking Station Power, Relay and/or Remote version (includes 2 cable glands)	68 12 275
Cable Gland Docking Station	68 12 868
Pipe Mount Kit	45 44 198
Duct Mount Kit	68 12 725
Junction Box Aluminium for Remote Mount 'd'	45 44 099
Junction Box Stainless Steel for Remote Mount 'd'	45 44 098

Ordering Information

Remote 'e' Versions for	Dräger Polytron® 8200 DD	Dräger Polytron® 8200 LC
Sensing Head Polytron® SE Ex PR (DD / LC) M1 for remote 'e' versions	68 12 711	68 12 722
Sensing Head Polytron® SE Ex PR (DD / LC) M2 for remote 'e' versions	68 12 710	68 12 721
Sensing Head Polytron® SE Ex PR (DD / LC) M3 for remote 'e' versions	68 12 718	68 12 719
Sensing Head Polytron® SE Ex HT (DD) M for remote 'e' versions	68 12 720	
Accessories		
Splash guard	68 12 510	
Gassing Adapter PE incl. hose	45 09 314	
Gassing Adapter PE, Europe	68 06 978	
Calibration Adapter Viton®	68 10 536	
Process Adapter (stainless steel, with lock nut M30 × 1.5) for DD	68 12 470	
Process Adapter (stainless steel, with lock nut M36 × 1.5) for LC	68 12 465	
Viton® is a registered trademark of DuPont Performance Elastomers.		

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