

Dräger Polytron 5200 Stationary gas detector (CatEx)

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).



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 generation, we drive our measurement technology a bit further. With the Polytron 5200, you will definitely benefit from this experience and power of innovation. Its new DrägerSensor Ex PR DD or Ex PR LC, for example, ensures:

- longer lifetime
- better poison resistance
- extremely high sensitivity
- short response times
- high accuracy
- stable sensor signal

OPTIONAL: THREE RELAYS FOR CONTROLLING EXTERNAL EQUIPMENT

Upon request, the Dräger Polytron 5200 can be supplied 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 5200: a duct-mount

D-15002-2010



Dräger Polytron 5200 DD
with DrägerSensor Ex PR DD
for detecting combustible gases
and vapors.

D-15002-2010



Dräger Polytron 5200 LC
with DrägerSensor Ex PR LC
for detecting low concentrations of
combustible gases and vapors.

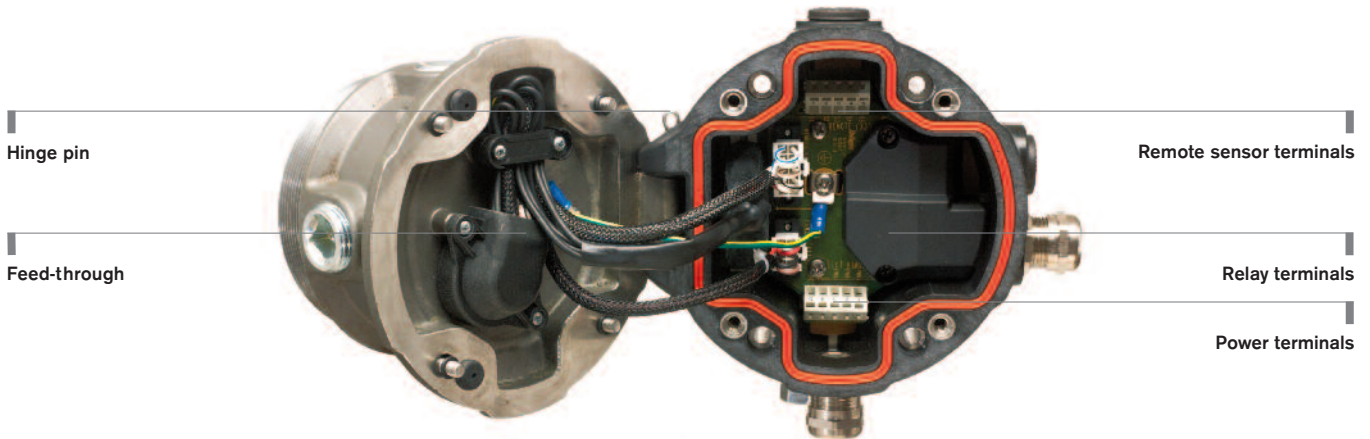
Same design, same operating principle: The Polytron 5000 series

The Dräger Polytron 5200 is part of the Polytron 5000 series. All transmitters of this series have the same design and user interface, which guarantees a uniform operating philosophy. Your advantage: less training requirement and easier maintenance.

Other transmitters of the Polytron 5000 serie:

- Dräger Polytron 5000
(EC stationary gas detector)
- Dräger Polytron 5310
(DSIR stationary gas detector)
- Dräger Polytron 5700
(PIR 7000 stationary gas detector)
- Dräger Polytron 5720
(PIR 7200 stationary gas detector)

DRÄGER POLYTRON 5000 WITH E-BOX / DOCKING STATION ATTACHED



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 – either through the Ex-e cable gland or through the seal on the conduit. Finally, plug the terminal block into the PCB.

EASY AND COST-EFFECTIVE: SINGLE-OPERATOR CALIBRATION

The transmitter settings can be changed and maintenance carried out without opening the housing. Declassification of the hazardous, classified area is not necessary. Use the magnetic wand to quickly and easily select menu items and functions. An additional hand held terminal is not required.

FURTHER ADVANTAGES:

- Available as flameproof or increased safety version
- Aluminum 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 flashlight
- Traffic light status indicators (green = no danger, yellow = error, flashing red = gas alarm)
- Can also be used as an early warning system (0–10 % LEL) for ammonia

TECHNICAL DATA

Dräger Polytron 5200 DD and Dräger Polytron 5200 LC

Type	Explosion proof 'd' or combined increased safety 'de' transmitter			
Gases	Combustible gases and vapors			
Ranges	DD:	0 to 100 % LEL		
	LC:	0 to 10 % LEL		
Display	4-digit backlit LCD; 3 status LEDs (green/yellow/red)			
Electrical data	Signal Output	Normal operation	4 to 20 mA	
		Maintenance	steady 3.4 mA or 4 mA \pm 1 mA 1 Hz modulation; user selectable	
		Fault	< 1.2 mA	
	Supply Voltage	10 to 30 VDC, 3-wire		
	Relay Rating (option)	Two alarm, one 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, IP 65/66/67		
	Cable Entry	¾" NPT female conduit or M20 cable gland		
	Size (l x w x d, approx.)	without e-Box	7.0" x 5.8" x 5.1" / 180 x 150 x 130 mm	
		with e-Box.	7.3" x 7.1" x 7.4" / 185 x 180 x 190 mm	
	Weight (approx.)	without e-Box, aluminum	4.9 lbs / 2.2 kg	
		without e-Box, 316 stainless steel	8.8 lbs / 4.0 kg	
		with e-Box, aluminum	7.7 lbs / 3.5 kg	
with e-Box, 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 -40°C \leq Ta \leq +40/+80°C		
		Class I, Div 1, Groups A, B, C, D Class I, Zone 1, Group IIC; T-Code T6 / T4 -40°C \leq Ta \leq +40/+80°C		
	ATEX, IECEx	II 2G Ex d IIC T6/T4 Gb, -40 \leq Ta \leq +40/+80 °C; 'd' version		
		II 2G Ex de IIC T6/T4 Gb, -40 \leq Ta \leq +40/+80 °C; 'e' version; II 2D Ex tb IIIC T80/130°C Db, -40°C \leq Ta \leq +40/+80°C		
CE-mark	ATEX (directive 94/9/EC) Electromagnetic compatibility (directive 2004/108/EC) Low voltage (directive 2006/95/EC)			

*) Draeger Polytron 5200 LC and all e-Box versions are only ATEX / IECEx approved

**) Draeger Polytron 5200 with relays Ta \leq +70 °C

***) CSA pending

ORDER INFORMATION

Dräger Polytron 5200 DD and Dräger Polytron 5200 LC

	Aluminum 'd'	SS316L 'd'	Aluminum 'e'	SS316L 'e'
Without relays (DD)	45 44 150	45 44 152	45 44 154**)	45 44 158**)
Without relays (LC)	45 44 130	45 44 132	45 44 134**)	45 44 138**)
With relays (DD)	45 44 151	45 44 153	45 44 155***)	45 44 159***)
With relays (LC)	45 44 131	45 44 133	45 44 135***)	45 44 139***)
Remote version w/o relays (DD)			45 44 156*)	45 44 160*)
Remote version w/o relays (LC)			45 44 136*)	45 44 140*)
Remote version w/relays (DD)			45 44 157*)	45 44 161*)
Remote version w/relays (LC)			45 44 137*)	45 44 141*)

*) order respective Sensing Head Polytron SE Ex Remote 'e' Version and e-Box 6812275 separately

**) order e-Box 6812420 for power only wires separately

***) order e-Box 6812275 for power and/or relay wires separately

Magnetic wand for menu access (blue body, white logo)	45 44 101
e-Box Power only version (includes 1 cable gland) / Docking Station	68 12 420
e-Box Power, Relay and/or Remote version (includes 2 cable glands) / Docking Station	68 12 275
Cable Gland e-Box	68 12 868
Pipe Mount Kit	45 44 198
Duct Mount Kit Polytron 5200 / 5310	68 12 725
Junction Box Aluminum for Remote Mount 'd'	45 44 099
Junction Box Stainless Steel for Remote Mount 'd'	45 44 098

Remote 'e' Versions for

	Dräger Polytron 5200 DD	Dräger Polytron 5200 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 / LC) M for remote 'e' versions	68 12 720	

Accessories Dräger Polytron 5200 DD or Dräger Polytron 5200 LC

Splash Guard	68 12 510
Calibration Adapter PE	45 09 314
Calibration Adapter PE, Europe	68 06 978
Calibration Adapter Viton	68 10 536
Process Adapter (stainless steel, with lock nut M30 x 1.5) for DD	68 12 470
Process Adapter (stainless steel, with lock nut M36 x 1.5) for LC	68 12 465

HEADQUARTERS

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