

Dräger Polytron® 5200 CAT Detection of flammable gases and vapors

The Dräger Polytron® 5200 CAT is a cost effective explosion proof transmitter for the detection of flammable gases in the lower explosion limit (LEL). It uses a catalytic bead DrägerSensor® Ex ... DQ, which will detect most flammable gases and vapors. A 3 wire 4 to 20 mA analog output with relays makes it compatible with most control systems.



Benefits

Fast and stable – the DrägerSensor Ex ... DQ

The latest generation type DQ gas sensor is based on the proven catalytic bead principle. Innovative dual active elements result in good long-term zero stability. Dräger has raised the bar yet again for poison resistance. The resulting long service life provides low ownership costs. Measuring performance has also been improved. The innovative gas inlet allows the sensor to respond to gas within a matter of seconds.

Same design, same operating principle

Polytron 5200 belongs to the Dräger Polytron 5000 series. All transmitters in this series have the same design and user interface. This allows for uniform operation with reduced training and maintenance requirements.

The backlit display shows status information clearly with quick access to functions using a non-intrusive magnetic wand. The gas concentration and measurement unit are displayed during normal operation. Colored LEDs (green, yellow and red) provide additional alarm and status information.

Three relays for controlling external equipment

Upon request, the Dräger Polytron 5200 can also 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 central controller.

Safe, robust housing for every application

Polytron 5200 features a Class I, Div. 1 rated explosion proof enclosure made from aluminum or stainless steel, making it suitable for a wide range of environmental conditions.

Make the impossible possible with the remote sensor

A remote explosion proof junction allows installation of the sensor up to 350' away from the transmitter in difficult to access areas. A permanently attached remote calibration adapter allows for remote bump testing or calibration from the Polytron display by using permanently attached tubing that takes the calibration gas to the sensor.

System Components



D-6806-2016

Dräger REGARD® 7000

The Dräger REGARD® 7000 is a modular and highly expandable control system for monitoring various gases and vapors. Ideal for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD® 7000 delivers exceptionally reliability and efficiency. An additional benefit is the controller's backward compatibility with the REGARD®.



D-1130-2010

Dräger REGARD® 3900 Series

The devices of the Dräger REGARD® 3900 series can be used as standalone controllers. You can configure up to 16 measuring channels. In addition, the modular setup enables you to customize the control units to the demands of your plant. You can also embed further features to existing alarms.

Accessories



D-24487-2020

Remote Calibration Adapter DQ

The Remote Calibration Adapter DQ comes with inner thread to connect the sensor...DQ for calibration or bump-test to check the current sensor's sensitivity in areas of poor access.

Accessories



D-85372-2013

Remote Calibration Adapter LC

The Remote Calibration Adapter LC comes with inner thread to connect the sensor...LC for calibration or bump-test to check the current sensor's sensitivity in areas of poor access.



D-85369-2013

Splash guard

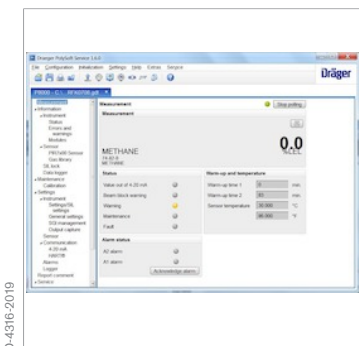
The Splash guard protects the sensor against splash water and dirt.



D-85345-2013

Duct mount kit

The duct mount kit enables gas monitoring inside ventilation ducts while keeping the transmitter outside.



D-4316-2019

Dräger Polysoft software

The optional Dräger Polysoft Windows® software is used for configuration, firmware upgrades, diagnostics, and downloading the Polytron's built in datalogger. All from the comfort of your control room using the digital HART® signal that rides on top of the analog 4 to 20 mA signal. Out in the field, an available non-intrusive IR dongle easily connects Polytron® to Polysoft.

Accessories



D-2950-2018

Remote Sensor Junction Box

The explosion-proof junction box allows remote mounting of CatEx sensor with cabling lengths over 300 feet. A plug and play sensor interface makes installation easy.



D-85362-2013

Pole Mounting Kit

Attach Polytron® 5000/8000 series to a pole or pipe using clamps (not included)



Polytron® Calibration Kit

Basic calibration kit with zero gas cylinder and space for a span gas cylinder. Includes all the needed accessories in a convenient carrying case.

Technical Data

Dräger Polytron® 5200 CAT

Type	Explosion proof / flameproof enclosed transmitter ("d")			
Gases	flammable gases and vapors			
Measuring ranges	DQ	0 to 100 % LEL		
	LC	0 to 10 % LEL		
Display	Backlit LCD; 3 Status LEDs (green/yellow/red)			
Electrical data	Signal output analog	Normal operation	4 to 20 mA	
		Maintenance	Constant 3.4 mA or 4 mA ±1 mA 1 Hz modulation; (adjustable)	
		Fault	< 1.2 mA	
	Power supply	10 to 30 V DC, 3-wire		
	Power consumption (max.)	w/o relay, non-remote	95 mA at 24 V	
		w/ relay, remote	145 mA at 24 V	
	Relay specification (option)	2 alarm relays and 1 fault relay, single-pole two-way contact 5 A @ 230 VAC, 5 A @ 30 VDC, resistance-bound		
Environmental conditions (see sensor data sheet)	Temperature	-40 to 80 °C (-40 to 176 °F) without relay -40 to 70 °C (-40 to 158 °F) with relay- -50 to 85 °C (-122 to 185 °F) remote sensor		
	Pressure	23.6 to 38.4 inch Hg / 800 to 1,200 mbar		
	Humidity	5 to 95% r. h., non-condensing		
Housing	Transmitter housing	Epoxy coated copper-free aluminium or stainless steel SS316 L		
	Sensor housing	Stainless steel 303		
	Enclosure protection type	NEMA 4X & 7, IP65/66/67		
	Cable entry point	3/4" NPT threaded holes or M20 cable gland		
	Dimensions (H x W x D)	11.0" x 5.9" x 5.1" / 280 x 150 x 130 mm		
	Weight, approx.	Aluminium	4.9 lbs / 2.2 kg	
SS316 L		8.8 lbs / 4.0 kg		
Approvals*	UL & CSA	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			
	IECEX	Ex db IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+70 °C;		
	ATEX	II 2G Ex db IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+70 °C;		
CE markings	ATEX (Directive 2014/34/EU) Electromagnetic Compatibility (Directive 2014/30/EU) Low Voltage (Directive 2014/35/EU)			

Ordering Information

Dräger Polytron® 5200 CAT

Dräger Polytron® 5200 CAT DQ d A	83 44 150
Dräger Polytron® 5200 CAT DQ d A relay	83 44 151
Dräger Polytron® 5200 CAT DQ d S	83 44 152
Dräger Polytron® 5200 CAT DQ d S relay	83 44 153

Ordering Information

Dräger Polytron® 8xx Custom Configuration Kit e.g. St. Steel & LC sensor – visit www.draeger.com/polytron to configure yours 83 44 500

Accessories	Order Number
Magnetic wand	45 44 101
Pipe mount bracket	45 44 198
Aluminum junction box for remote sensor 'd'	45 44 099
Stainless steel junction box for remote sensor 'd'	45 44 098
Duct mount kit	68 12 725
IR Connection Kit Polytron® 5000/8000	45 44 197
PolySoft licence (1 year)	83 28 600
PolySoft licence (subscription)	83 28 601
Splash guard	68 12 510
Weather protection kit Dräger Polytron® 5/6/8xxx	37 02 198
Gassing adapter	PE, w/o tubing PE incl. tubing
	68 06 978 46 09 314
Calibration adapter Viton®	68 10 536
Process adapter (Stainless steel) for DQ	68 12 470
Process adapter (Stainless steel) for LC	68 12 465

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