Dräger Polytron® 5100 EC
Detector for toxic gases and oxygen

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.

Menu control

Backlit display

LED status display

DrägerSensor® EC

D-158-2016

Benefits

Durable, intelligent and sensitive – the DrägerSensor®

With the unique electrochemical Dräger sensors, the Polytron 5100 covers a total of 15 typical gases in various measuring ranges. These long-life sensors provide continuous detection even under the harshest conditions. DrägerSensors offer the industry's widest temperature range between -40 °C to +65 °C (-40 °F to +150 °F). The built-in memory contains all the necessary calibration and configuration information. The sensors are calibrated ready for immediate operation. The sensor's intrinsically safe connection dispenses with the need for a flame arrestor giving you a faster response time and higher sensitivity.

Same design, same operating principle

Polytron 5100 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. Coloured LEDs (green, yellow and red) provide additional alarm and status information.

Three relays for controlling external equipment

The Dräger Polytron 5100 can also be supplied with three integrated relays upon request. This enables you to use it as an independent gas detection system with two adjustable gas concentration alarms and one fault alarm. Audible 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

The Polytron 5100 features a Class I, Div. 1 rated explosion-proof enclosure made of aluminum or stainless steel, making it suitable for a wide range of environmental conditions. A protection type "e" version includes a convenient docking station enabling installation in hazardous atmospheres without running conduit (where approved) and this also facilitates pre-assembly.

Make the impossible possible with remote sensor

The remote sensor connection housing allows you to install the sensor separately from the transmitter. This allows you to simply place the sensor closer to the gas cloud in hard-to-reach locations. The display remains visible at eye level. Since the sensor is connected via an intrinsically safe connection, no conduit cabling is required. The connection also allows 'hot replacement' of the sensor in the hazardous area.

System Components

D-6806-2016

Dräger REGARD® 7000

The Dräger REGARD® 7000 is a modular and therefore highly expandable control system for monitoring various gases and vapours. Suitable for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD® 7000 also features exceptional reliability and efficiency. An additional benefit is the 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 customise the control units to the demands of your plant. You can also embed further features to existing alarms.

Accessories

D-0188-2020

Remote sensor

With the EC Sensing Head Remote, the sensor can be installed up to 30 metres away from the Polytron in a separate compact housing. The separate sensor housing with included field cable is intrinsically safe, which makes installation considerably easier and more flexible. This means that it is not necessary to search for a suitable cable and the sensor's position can even be adjusted within an Ex zone later on.

Accessories

Splash guard

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

Duct mount kit

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

Related Products

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.

Related Products

ST-3811-2003

Dräger Polytron® 3000

The Dräger Polytron® 3000 is an intrinsically safe gas detector for the continuous monitoring of more than 60 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.

Technical Data

Dräger Polytron® 5100 EC

Type	Explosion-proof / flameproof enclosed transmitter ("d") or combined with increased safety ("d/e")
Gases	Toxic gases and oxygen depending on the sensor used
Measuring ranges	For customised adjustment, see sensor data sheet
Display	Backlit 4 digit LCD; 3 Status LEDs (green/yellow/red)
Performance Characteristics	see sensor datasheet

Electrical data

Signal output analog	Normal operation	4 to 20 mA
	Maintenance	Constant 3.4 mA
		4 mA ±1 mA 1 Hz modulation; (adjustable)
	Fault	< 1.2 mA, 3-wire
		< 3 mA, 2-wire
Power supply	10 to 30 V DC, 3-wire	
	18 to 30 V DC, 2-wire	
Relay specification (option)	2 alarm relays and 1 fault relay, SPDT 5 A @ 230 VAC,	
	5 A @ 30 VDC, resistance-bound	

Environmental conditions (see sensor data sheet)

Temperature	-40 to 65 ℃ (-40 to 149 ℉) without relay
	-40 to 65 ℃ (-40 to 149 ℉) with relay
Pressure	20.7 to 38.4 inches Hg / 700 to 1,300 mbar
Humidity	0 to 100 % RH, non-condensing

Housing

Transmitter housing	Epoxy coated copper-free aluminum or stainless steel SS316 L	
Sensor housing	Polyamide	
Enclosure protection type	NEMA 4X & 7, IP65/66/67	
Cable entry point	Two 3/4" NPT port or M20 cable gland	
Dimensions (H x W x D), approx.	w/o docking station	11.0" x 5.9" x 5.1" / 280 x 150 x 130 mm
	w/ docking station	11.0" x 7.1" x 7.5" / 280 x 180 x 190 mm
Approx. weight	Aluminium w/o docking station	6.6 lbs / 3.0 kg
	SS316 L w/o docking station	11.0 lbs / 5.0 kg
	Aluminium w/ docking station	9.9 lbs / 4.5 kg
	SS316 L w/ docking station	14.3 lbs / 6.5 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 II, Div 1, Groups E, F, G;
	Class I, Zone 1, Group IIC; T-Code T6/T4
IECEx	Ex db [ia] IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+70 ℃; ›d‹ version
	Ex db eb [ia] IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+70 ℃; ›e‹ version
	Ex tb [ia] IIIC T135 ℃ Db
ATEX	II 2G Ex db [ia] IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+70 ℃; ›d‹ version
	II 2G Ex db eb [ia] IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+70 ℃; ›e‹ version
	II 2D Ex tb [ia] IIIC T135 ℃ Db
CE markings	ATEX (Directive 2014/34/EU)
	Electromagnetic Compatibility (Directive 2014/30/EU)
	Low Voltage (Directive 2014/35/EU)
* All docking station versions are only ATEX/IECEx approved	

Ordering Information

Dräger Polytron® 5100 EC	Approval Code	Order Number
Dräger Polytron® 5100 EC d A	ETR 0200	83 44 860
Dräger Polytron® 5100 EC d A relay	ETR 0201	83 44 121
Dräger Polytron® 5100 EC d S	ETR 0300	83 44 862
Dräger Polytron® 5100 EC d S relay	ETR 0301	83 44 123
Dräger Polytron® 5100 EC e A (incl. Docking Station)	ETR 020I	83 44 124
Dräger Polytron® 5100 EC e A relay (incl. Docking Station)	ETR 020J	83 44 125
Dräger Polytron® 5xx0 Kit (Custom configuration e.g. stainless steel housing)		83 44 500

Electrochemical DrägerSensors	Order Number
DrägerSensor® AC	68 10 595
DrägerSensor® Cl_2	68 09 665
DrägerSensor® CO	68 09 605
DrägerSensor® CO LH	68 12 570
DrägerSensor® CO LS	68 09 620
DrägerSensor® $COCl_2$	68 09 930
DrägerSensor® H_2	68 09 685
DrägerSensor® HCN	68 13 200
DrägerSensor® H_2O_2 LC	68 09 705
DrägerSensor® H_2S	68 10 435
DrägerSensor® H_2S HC	68 09 710
DrägerSensor® H_2S LC	68 09 610
DrägerSensor® Hydrides	68 09 635
DrägerSensor® NH_3 HC	68 09 645
DrägerSensor® NH_3 LC	68 09 680
DrägerSensor® NH_3 TH	68 00 055
DrägerSensor® NH_3 TL	68 13 095
DrägerSensor® NO	68 09 625
DrägerSensor® XS NO LC (Order MEC adapter separately)	68 12 785
DrägerSensor® NO_2	68 09 655
DrägerSensor® NO_2 LC	68 13 205
DrägerSensor® O_2	68 09 720
DrägerSensor® O_2 LS	68 09 630
DrägerSensor® OV1	68 10 740
DrägerSensor® OV2	68 10 745
DrägerSensor® SO_2	68 09 660

Accessories		Order Number
Magnetic wand		45 44 101
Pipe mount bracket		45 44 198
Duct mount kit		68 12 725
Duct mount adaptor for remote EC sensing head		83 17 617
RS stainless steel remote adaptor		83 23 404
EC Sensing Head Remote w/mount kit		68 12 684
IR Connection Kit Polytron® 5000/8000		45 44 197
PolySoft licence (1 year)		83 28 600
PolySoft licence (subscription)		83 28 601
Connection cable w/ plug for Remote EC Sensing Head	16 ft / 5 m	83 23 305
	49 ft / 15 m	83 23 315

	98 ft / 30 m		83 23 330
Splash guard			68 12 510
Weather protection kit Dräger Polytron® 5/6/8xxx			37 02 198
Gassing adaptor	PE , Europe		68 06 978
	PE incl. tubing		45 09 314
Calibration adaptor Viton®			68 10 536
MEC Adapter für DrägerSensor® XS			68 12 695
Viton® is a registered trademark of the DuPont company.			
HART® is a registered trademark of the HART Communication Foundation.			

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Dräger Polytron® 5200 CAT
Detector for flammable gases and vapours

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 that will detect most flammable gases and vapours. A 3-wire 4 to 20 mA analogue output with relays makes it compatible with most control systems.

Menu control

Backlit display

LED status display

D-32068-2020

DrägerSensor Ex® ... DQ

Dräger. Technology for Life®

Benefits

Fast and stable – the DrägerSensor® Ex

The DrägerSensor® Ex is based on the proven catalytic bead principle. Innovative dual active elements result in good long-term zero stability. Dräger has raised the bar for poison resistance yet again. Its long service life ensures that ownership costs remain low. Performance measurement has also been improved. The innovative gas inlet enables the sensor to detect gas within a matter of seconds.

Same design, same operating principles

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. Coloured LEDs (green, yellow and red) provide additional alarm and status information.

Three relays for controlling external equipment

The Dräger Polytron 5200 can also be supplied with three integrated relays upon request. This enables you to use it as an independent gas detection system with two adjustable concentration alarms and one fault alarm. Audible 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

The 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. A protection type "e" version includes a convenient docking station that allows installation in hazardous atmospheres without running conduit (where approved) and this also facilitates pre-assembly.

Make the impossible possible with the remote sensor

The remote sensor connection housing allows you to install the sensor separately from the transmitter. This allows you to simply place the sensor closer to the gas cloud in hard-to-reach locations. The display remains visible at eye level. Since the sensor is connected via an intrinsically safe connection, no conduit cabling is required. The connection also allows 'hot replacement' of the sensor in the hazardous area.

System Components

D-6806-2016

Dräger REGARD® 7000

The Dräger REGARD® 7000 is a modular and therefore highly expandable control system for monitoring various gases and vapours. Suitable for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD® 7000 also features exceptional reliability and efficiency. An additional benefit is the 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 customise 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.

Related Products

D-797-2016

Dräger Polytron® 8200 CAT

The Dräger Polytron® 8200 CAT is an advanced explosion-proof transmitter for the detection of flammable gases in the lower explosion limit (LEL). It uses a catalytic bead DrägerSensor® Ex that will detect most flammable gases and vapours. In addition to a 3-wire 4 to 20-mA analogue output with relays it also offers HART®, Modbus and Fieldbus protocols, making it compatible with most control systems.

D-11158-2011

Dräger PEX 3000

The transmitter Dräger PEX 3000 detects flammable gases and vapours in concentrations below their lower explosive limit (100 % LEL). It increases the explosion protection of your plant. Its catalytic bead sensor provides a long-term stable measuring signal and responds to gas within a few seconds.

Technical Data

Dräger Polytron® 5200 CAT

Type	Explosion-proof / flameproof enclosed transmitter ("d") or combined with increased safety ("d/e")		
Gases	flammable gases and vapours		
Measuring ranges	DQ	0 to 100 % LEL	
	LC	0 to 10 % LEL	
Display	Backlit 4 digit LCD; 3 Status LEDs (green/yellow/red)		
Performance Characteristics	Accuracy/repeatability	Zero	≤ 1 % LEL
		Span	≤ 1 % LEL
		Long-term drift	≤ 3 % LEL after 6 months
	Response time	T50	< 7 seconds (methane)
		T90	< 13 seconds (methane)
Electrical data	Signal output analogue	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	
	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	
	Pressure	20.7 to 38.4 inch Hg / 700 to 1,300 mbar	
	Humidity	0 to 100 % RH, non-condensing	
Housing	Transmitter housing	Epoxy coated copper-free aluminum or SS316 L stainless steel	
	Sensor housing	303 Stainless steel	
	Enclosure protection type	NEMA 4X & 7, IP65/66/67	
	Cable entry point	3/4 NPT threads or M20 cable gland	
	Approx. Dimensions (H x W x D)	w/o docking station	11.0" x 5.9" x 5.1" / 280 x 150 x 130 mm
		w/ docking station	11.0" x 7.1" x 7.5" / 280 x 180 x 190 mm
	Weight, approx.	Aluminium w/o docking station	4.9 lbs / 2.2 kg
		SS316 L w/o docking station	8.8 lbs / 4.0 kg
		Aluminium w/ docking station	7.7 lbs / 3.5 kg
		SS316 L w/ docking station	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 CSA C22.2 No. 152	
	IECEx	Ex db IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80 °C; ›d‹ version	
		Ex db eb IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80 °C; ›e‹ version	
		Ex tb IIIC T80/130 °C Db	
	ATEX	II 2G Ex db IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+70 °C; 'd' version	
		II 2G Ex db eb IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+70 °C; 'e' version	
		II 2D Ex tb IIIC T135 °C Db	
	CE markings	ATEX (Directive 2014/34/EU)	
		Electromagnetic Compatibility (Directive 2014/30/EU)	
		Low Voltage (Directive 2014/35/EU)	

Technical Data

Performance approval (for DQ sensor only)	TÜV 19 ATEX 8435X

* All docking station versions are ATEX/IECEx approved

Ordering Information

Dräger Polytron® 5200 CAT	Approval Code	Order Number
Dräger Polytron® 5200 CAT DQ d A	XTR 0210	83 44 150
Dräger Polytron® 5200 CAT DQ d A relay	XTR 0211	83 44 151
Dräger Polytron® 5200 CAT DQ d S	XTR 0310	83 44 152
Dräger Polytron® 5200 CAT DQ d S relay	XTR 0311	83 44 153
Dräger Polytron® 5200 CAT DQ e A (incl. Docking Station)	XTR 021I	83 44 154
Dräger Polytron® 5200 CAT DQ e A relay (incl. Docking Station)	XTR 021J	83 44 155
Dräger Polytron® 5xx0 Kit (Custom configuration e.g. stainless steel housing)		83 44 500

Accessories		Order Number
Magnetic wand		45 44 101
Pipe mount bracket		45 44 198
Duct mounting 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 adaptor	PE, Europe	68 06 978
	PE incl. tubing	45 09 314
Viton® calibration adaptor		68 10 536
Remote calibration adapter for DQ		68 12 480
Remote calibration adapter for LC		68 12 482
Process adapter (stainless steel, with union nut M30 x 1.5) for DQ		68 12 470
Process adapter (stainless steel, with union nut M36 x 1.5) for LC		68 12 465

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HART® is a registered trademark of the HART Communication Foundation.

Windows® is a registered trademark of Microsoft Corporation.

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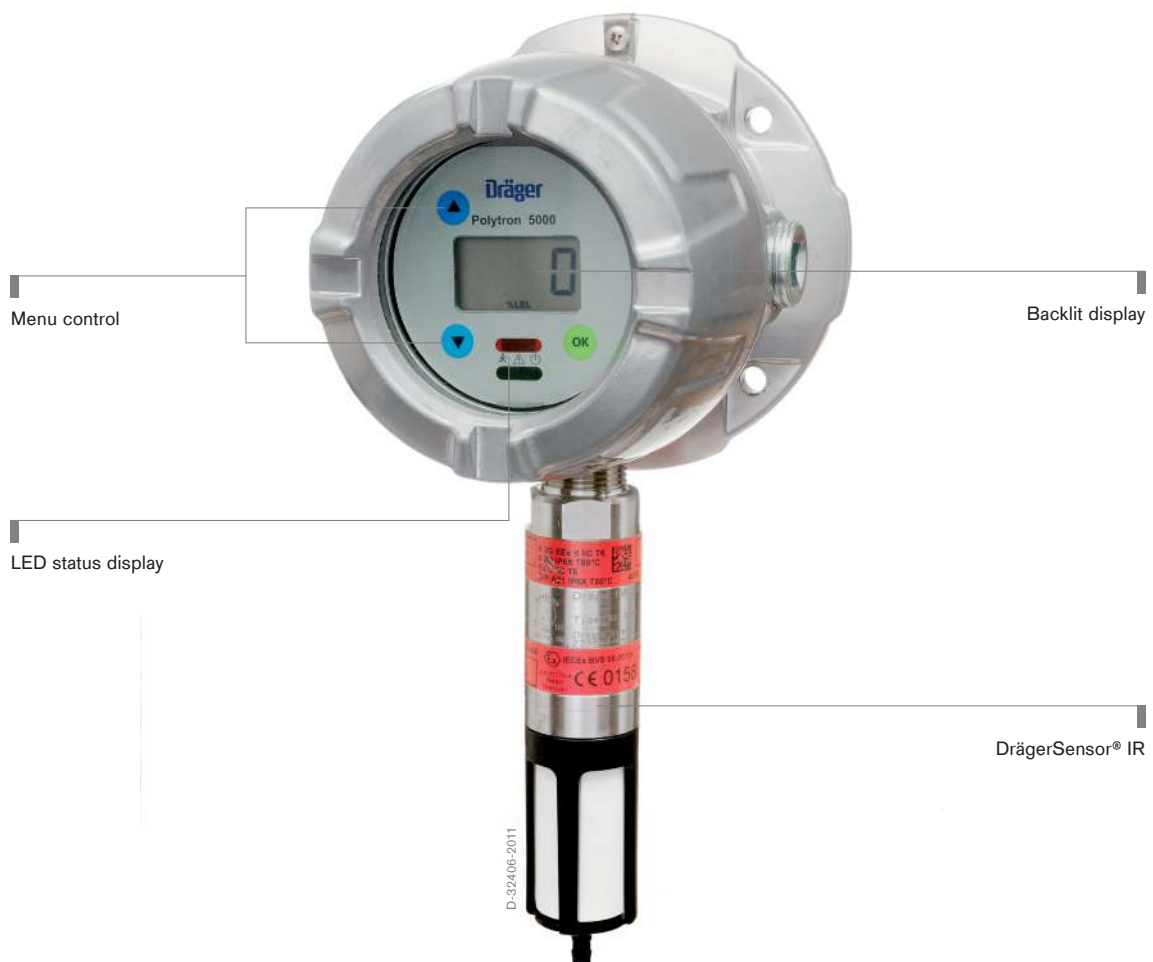asia.pacific@draeger.com

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Dräger Polytron® 5310 IR
Detector for flammable gases and vapours

The Dräger Polytron® 5310 IR is a cost effective explosion-proof transmitter for the detection of flammable gases in the lower explosion limit (LEL). It uses an infrared DrägerSensor® IR that can be configured for methane, propane, or ethylene. A 3-wire 4 to 20-mA analogue output with relays makes it compatible with most control systems.

Menu control

LED status display

Backlit display

DrägerSensor® IR

D-32406-2011

Dräger. Technology for Life®

Benefits

Poison-resistant and fail-safe – the DrägerSensor IR

DrägerSensor IR is a cost-effective alternative to catalytic bead sensors and offers a number of benefits. It is resistant to poisonous chemicals that can shorten a catalytic pellistor's life. Long life optics have lower maintenance costs compared to pellistors. IR technology is inherently fail-safe without any undisclosed drawbacks. These benefits provide improved performance with excellent long-term stability and fast response times.

Same design, same operating principles

Polytron 5310 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. Coloured LEDs (green, yellow and red) provide additional alarm and status information.

Three relays for controlling external equipment

The Dräger Polytron 5310 can also be supplied with three integrated relays upon request. This enables you to use it as an independent gas detection system with two adjustable concentration alarms and one fault alarm. Audible 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

The Polytron 5310 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. A protection type "e" version includes a convenient docking station that allows installation in hazardous atmospheres without running conduit (where approved) and this also facilitates pre-assembly.

Make the impossible possible with the remote sensor

An available remote sensor condulet housing allows the sensor to be installed up to 30 metres away from the Polytron transmitter. The sensor splash guard with integrated tubing nipple enables one person to perform the full calibration of a remote mounted sensor from the transmitter.

System Components

D-6806-2016

Dräger REGARD® 7000

The Dräger REGARD® 7000 is a modular and therefore highly expandable control system for monitoring various gases and vapours. Suitable for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD® 7000 also features exceptional reliability and efficiency. An additional benefit is the 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 customise the control units to the demands of your plant. You can also embed further features to existing alarms.

Accessories

D-85345-2013

Duct mount kit

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

Accessories

ST-5665-2006

Weather Guard

The double-walled Weather Guard enclosure is recommended to be used whenever a contanimantion by salt crust, oil films, resins or similar substances is expected.
Use always in combination with the Splash Guard, suitable for wind speeds up to 27 m/s (10 Beaufort).

ST-5685-2006

Splash guard

The splash guard protects the sensor against splashes of water and dirt.

ST-5683-2006

Calibration adapter

Transmitter calibration (with mounted splash guard), up to wind force 10 Bft, fitted as standard.

ST-5666-2006

Process adapter

Sampling or process applications with gas inlet and outlet.

Related Products

D-15018-2010

Dräger Polytron® 8310 IR

The Dräger Polytron® 8310 IR is an advanced explosion proof transmitter for the detection of combustible gases in the lower explosion limit (LEL). It uses an infrared DrägerSensor® IR that can be configured for methane, propane or ethylene. Besides a 3 wire 4 to 20 mA analogue output with relays, it also offers HART®, Modbus and Fieldbus protocols making it compatible with most control systems.

ST-8822-2005

Dräger PIR 3000

The Dräger PIR 3000 is an explosion proof infrared gas detector for continuous monitoring of combustible gases and vapors. Based on a stainless steel SS 316 enclosure as well as on a good measuring performance, this transmitter offers an excellent price-performance-ratio.

Technical Data

Dräger Polytron® 5310 IR

Type	Explosion proof / flameproof enclosed transmitter ("d") or combined with increased safety ("d/e")		
Gases	Flammable gases and vapours		
Measuring range	0 to 100% LEL		
Display	Backlit 4 digit LCD; 3 Status LEDs (green/yellow/red)		
Performance Characteristics	Accuracy/repeatability	Sensitivity	≤± 2 % LEL
	Response time	T90	30 seconds (with splash guard)
Electrical data	Signal output analogue	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	
	Relay specification (optional)	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 65 ℃ (-40 to 149 ℉) without relay	
		-40 to 65 ℃ (-40 to 149 ℉) with relay	
	Pressure	20.7 to 38.4 inch Hg / 700 to 1,300 mbar	
	Humidity	0 to 100 % r. h., non-condensing	
Housing	Transmitter housing	Epoxy coated copper-free aluminum or stainless steel SS316 L	
	Sensor housing	Stainless steel SS316 L	
	Enclosure protection type	NEMA 4X & 7, IP65/66/67	
	Cable entry point	3/4 NPT threads or M20 cable gland	
	Dimensions (H x W x D), approx.	w/o docking station	11.0" x 5.9" x 5.1" / 280 x 150 x 130 mm
		w/ docking station	11.0" x 7.1" x 7.5" / 280 x 180 x 190 mm
	Weight, approx.	Aluminium w/o docking station	4.9 lbs / 2.2 kg
		SS316 L w/o docking station	8.8 lbs / 4.0 kg
		Aluminium w/ docking station	7.7 lbs / 3.5 kg
		SS316 L w/ docking station	11.0 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 CSA C22.2 No. 152	
	IECEx	Ex db IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+65 ℃; ›d‹ version	
		Ex db eb IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+65 ℃; ›e‹ version	
		Ex tb IIIC T80/130 ℃ Db	
	ATEX	II 2G Ex db IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+65 ℃; ›d‹ version	
		II 2G Ex db eb IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+65 ℃; ›e‹ version	
		II 2D Ex tb IIIC T80/130 ℃ Db	
	CE markings	ATEX (Directive 2014/34/EU)	
		Electromagnetic Compatibility (Directive 2014/30/EU)	
		Low Voltage (Directive 2014/35/EU)	
	Performance approval	TÜV 19 ATEX 8435X	

* All docking station versions are ATEX/IECEx approved

Ordering Information

Dräger Polytron® 5310 IR	Approval Code	Order Number
Dräger Polytron® 5310 IR d A	XTR 0200	83 44 370
Dräger Polytron® 5310 IR d A relay	XTR 0201	83 44 371
Polytron® 5xx0 Kit		83 44 500
(Custom configuration e.g. stainless steel housing)		

Accessories	Order Number
Magnetic wand	45 44 101
Pipe mount bracket	45 44 198
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
Process adaptor	68 11 330
Splash guard (spare part)	68 10 796
Weather protection kit Dräger Polytron® 5/6/8xxx	37 02 198
Weather guard	68 11 135
HART® is a registered trademark of the HART Communication Foundation.	
Windows® is a registered trademark of Microsoft Corporation.	

Notes

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Dräger Polytron® 5700 IR
Detector for flammable gases and vapours

The Dräger Polytron® 5700 IR is a cost effective explosion-proof transmitter for the detection of flammable gases in the lower explosive limit (LEL). It uses a high performance infrared Dräger PIR 7000 sensor that will quickly detect most common hydrocarbon gases. A 3-wire 4 to 20-mA analogue output with relays makes it compatible with most control systems.

Backlit display

Dräger PIR 7000

Menu control

LED status display

D-32408-2011

Dräger. Technology for Life®

Benefits

Efficient, stable and robust – The Dräger PIR 7000

With its stainless steel SS 316L enclosure and drift-free optics, the Dräger PIR 7000 is built to withstand the harshest industrial environments, offshore installations for example. The unique double compensated 4 beam measuring system makes the sensor resistant to dust or dirt deposits on the optical surfaces, environmental or ageing effects and long term drift. In combination with the Polytron 5700 it offers a gas library with up to 100 gases providing a high degree of application flexibility. Each of the listed gases can be picked from a menu and automatically cross-calibrated with a standard calibration gas such as methane or propane. No need to consult the factory when applications change.

Same design, same operating principles

Polytron 5700 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. Coloured LEDs (green, yellow and red) provide additional alarm and status information.

Three relays for controlling external equipment

The Dräger Polytron 5700 can also be supplied with three integrated relays upon request. This enables you to use it as an independent gas detection system with two adjustable concentration alarms and one fault alarm. Audible 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 5700 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. A protection type "e" version includes a convenient docking station which allows installation in hazardous atmospheres without running conduit (where approved) and this also facilitates pre-assembly.

Make the impossible possible with the remote sensor

An available remote sensor condulet housing allows the PIR sensor to be installed up to 30 metres away from the Polytron transmitter. A special calibration flow cell accessory enables one person to perform a full calibration of a remote mounted sensor from the transmitter.

System Components

D-6806-2016

Dräger REGARD® 7000

The Dräger REGARD® 7000 is a modular and therefore highly expandable control system for monitoring various gases and vapours. Suitable for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD® 7000 also features exceptional reliability and efficiency. An additional benefit is the 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 customise the control units to the demands of your plant. You can also embed further features to existing alarms.

Accessories

ST-11679-2007

Splash guard

The Splash guard protects the sensor against splashes of water and dirt.

Accessories

D-85345-2013

Duct mount kit

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

D-16965-2014

Process cuvette SGR

For sampling and in-line applications – reduces the inner volume of the measuring cuvette, thus providing a faster speed of response under flow conditions – made of stainless steel.

ST-11695-2007

Flow cell

Function test/calibration of the transmitter in high wind forces and/or high test gas concentration, including status display, suitable for process applications.

Related Products

D-14983-2010

Dräger Polytron® 8700 IR

The Dräger Polytron® 8700 IR is an advanced explosion proof transmitter for the detection of combustible gases in the lower explosion limit (LEL). It uses a high performance infrared Dräger PIR 7000 sensor, which will quickly detect most common hydrocarbon gases. Besides a 3 wire 4 to 20 mA analogue output with relays, it also offers HART®, Modbus and Fieldbus making it compatible with most control systems.

ST-11659-2007

Dräger PIR 7000

The Dräger PIR 7000 is an explosion proof point infrared gas detector for continuous monitoring of flammable gases and vapours. With its stainless steel SS 316L enclosure and drift-free optics this detector is built for the harshest industrial environments, e.g. offshore installations.

Technical Data

Dräger Polytron® 5700 IR

Type	Explosion-proof / flameproof enclosed transmitter ("d") or combined with increased safety ("d/e")		
Gases	Flammable gases and vapours		
Measuring ranges	Methane, propane, ethylene		0 to 20 ... 100 % LEL
	Methane		0 to 100 vol. %
	Further substances and measuring ranges upon request		
Display	Backlit 4 digit LCD; 3 Status LEDs (green/yellow/red)		
Performance Characteristics	Accuracy/repeatability	Sensitivity	≤± 1 % LEL
		Long term drift	≤± 1 % LEL after 12 month
	Response time	T90	4 seconds (w/o splash guard)
Electrical data	Signal output analogue	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	300-mA at 24 V
		w/ relay, remote	350-mA at 24 V
	Relay specification (optional)	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 77 ℃ (-40 to 170 ℉) without relay	
		-40 to 70 ℃ (-40 to 158 ℉) with relay	
	Pressure	20.7 to 38.4 inch Hg / 700 to 1,300 mbar	
	Humidity	0 to 100 % RH, non-condensing	
Housing	Transmitter housing	Epoxy coated copper-free aluminum or stainless steel SS316 L	
	Sensor housing	Stainless steel SS316 L	
	Enclosure protection type	NEMA 4X & 7, IP65/66/67	
	Cable entry point	3/4" NPT threads or M20 cable gland	
	Dimensions (H x W x D), approx.	w/o docking station	11.0" x 5.9" x 5.1" / 280 x 150 x 130 mm
		w/ docking station	11.0" x 7.1" x 7.5" / 280 x 180 x 190 mm
	Weight, approx.	Aluminium w/o docking station	8.6 lbs / 3.9 kg
		SS316 L w/o docking station	12.6lbs / 5.7 kg
		Aluminium w/ docking station	11.5 lbs / 5.2 kg
		SS316 L w/ docking station	15.7 lbs / 7.1 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 B, C, D;	
		Class II, Div 1, Groups E, F, G;	
		Class I, Zone 1, Group IIC;	
		T-Code T6/T4 CSA C22.2 No. 152	
	IECEx	Ex db IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80 ℃; ›d‹ version	
		Ex db eb IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80 ℃; ›e‹ version	
		Ex tb IIIC T80/130 ℃ Db	
	ATEX	II 2G Ex db IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80 ℃; ›d‹ version	
		II 2G Ex db eb IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80 ℃; ›e‹ version	
		II 2D Ex tb IIIC T80/130 ℃ Db	
	CE markings	ATEX (Directive 2014/34/EU)	
		Electromagnetic Compatibility (Directive 2014/30/EU)	

Technical Data

	Low Voltage (Directive 2014/35/EU)
Performance approval	TÜV 19 ATEX 8435X

* All docking station versions are ATEX/IECEx approved

Ordering Information

Dräger Polytron® 5700 IR	Approval Code	Order Number
(incl. splash guard and status indicator)		
Dräger Polytron® 5700 IR 334 d A	ITR 0210	83 44 220
Dräger Polytron® 5700 IR 334 d A relay	ITR 0211	83 44 221
Dräger Polytron® 5700 IR 334 d S	ITR 0310	83 44 222
Dräger Polytron® 5700 IR 340 d A	ITR 0220	83 44 240
Dräger Polytron® 5700 IR 340 d A relay	ITR 0221	83 44 241
Polytron® 5xx0 Kit		83 44 500
(Custom configuration e.g. stainless steel housing)		

Accessories	Order Number
Magnetic wand	45 44 101
Pipe mount bracket	45 44 198
Duct mount kit	68 12 300
Duct mount kit Flow Cell for PIR 7x00	68 11 945
Duct mount kit Bump Test Adapter for PIR 7x00	68 11 990
Status indicator for PIR 7000	68 11 625
Splash guard for PIR 7000	68 11 911
Flow Cell for PIR 7000	83 23 405
Bump Test Adapter for PIR 7000	68 11 630
Insect guard for PIR 7x00	68 11 609
Hydrophobic filter for PIR 7x00	68 11 890
Calibration adapter for PIR 7x00	68 11 610
PolySoft licence (1 year)	68 28 600
PolySoft licence (subscription)	68 28 601
PolySoft Premium licence (1 year)	83 28 639
PolySoft Premium licence (subscription)	83 28 640
Process cuvette for PIR 7x00, POM (Polyoxymethylene)	68 11 915
Process cuvette for PIR 7x00, stainless steel	68 11 415
Process cuvette for PIR 7x00, SGR	68 13 219
Aluminium junction box for remote sensor 'd'	45 44 099
Stainless steel junction box for remote sensor 'd'	45 44 098
Spacer	68 12 617
Dräger PIR 7000 334 for remote sensor 'e' variant	68 11 825
Dräger PIR 7000 340 for remote sensor 'e' variant	68 11 819
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Windows® is a registered trademark of Microsoft Corporation.	

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Dräger Polytron® 5720 IR
Detection of carbon dioxide

The Dräger Polytron® 5720 IR is a cost-effective explosion proof transmitter for the detection of carbon dioxide in volume percentage or ppm. It uses a high-performance infrared Dräger PIR 7200 sensor that can be submerged in water without damage. A 3-wire 4-to-20 mA analogue output with relays makes it compatible with most control systems.

Backlit display

Menu control

LED status display

Dräger PIR 7200

D-39563-2011

Dräger. Technology for Life®

Benefits

Efficient, stable and robust – the Dräger PIR 7200

With its stainless steel 316L enclosure and drift-free optics, the Dräger PIR 7200 is built for the harshest industrial and commercial outdoor environments. The unique 4-beam signal-stabilizing system makes the sensor resistant to dust or dirt deposits on the optical surfaces. Environmental and ageing effects are compensated for, ensuring long-term, drift-free operation. The measuring range can be freely adjusted between 0 – 2,000 ppm and 0 – 30 % volume, enabling a wide variety of applications.

Same design, same operating principles

The Polytron 5720 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 LCD 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. Coloured LEDs (green, yellow and red) provide additional alarm and status information.

Three relays for controlling external equipment

The Dräger Polytron 5720 can also be supplied with three integrated relays on request. This enables you to use it as an independent gas detection system with two adjustable concentration alarms and one fault alarm. Audible 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

The Polytron 5720 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. A protection type "e" version includes a convenient docking station enabling installation in hazardous atmospheres without running conduit (where approved) and this also facilitates pre-assembly.

Make the impossible possible with the remote sensor

An available remote sensor condulet housing allows the PIR sensor to be installed up to 30 metres away from the Polytron transmitter. A special Flow Cell accessory allows one person to perform the full calibration of a remote sensor from the transmitter.

System Components

D-6806-2016

Dräger REGARD® 7000

The Dräger REGARD® 7000 is a modular and therefore highly expandable control system for monitoring various gases and vapours. Suitable for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD® 7000 also features exceptional reliability and efficiency. An additional benefit is the 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 customise the control units to the demands of your plant. You can also embed further features to existing alarms.

Accessories

ST-11680-2007

Splash guard

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

Accessories

D-85345-2013

Duct mount kit

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

D-16965-2014

Process cuvette SGR

For sampling and in-line applications – reduces the inner volume of the measuring cuvette, thus providing a faster speed of response under flow conditions – made of stainless steel.

ST-11699-2007

Flow cell

Function test/calibration of the transmitter during high wind forces and/ or high test gas concentration, including status display, suitable for process applications.

Related Products

D-46490-2012

Dräger Polytron® 8720 IR

The Dräger Polytron® 8720 IR is an advanced explosion proof transmitter for the detection of carbon dioxide in percent volume or ppm. It uses a high performance infrared Dräger PIR 7200 sensor, which can be submerged in water without damage. Besides a 3 wire 4 to 20 mA analogue output with relays, it also offers HART®, Modbus and Fieldbus making it compatible with most control systems.

ST-11660-2007

Dräger PIR 7200

The Dräger PIR 7200 is an explosion proof point infrared gas detector for continuous monitoring of carbon dioxide. Designed for the industrial use, the transmitter offers drift-free optics. And due to its robust product design the PIR 7200 can be operated even in harsh environments.

Technical Data

Dräger Polytron® 5720 IR

Type	Explosion proof / flameproof enclosed transmitter ("d") or combined with increased safety ("d/e")		
Gases	Carbon dioxide		
Measuring range	0 to 10 Vol.-% (standard)		
	0 to 2,000 ppm ... 30 Vol.-% (configurable)		
Display	Backlit 4 digit LCD; 3 Status LEDs (green/yellow/red)		
Performance Characteristics	Accuracy/repeatability	Sensitivity	≤± 0.1 % vol.
		Long term drift	≤± 0.3 % vol. after 12 month
	Response time	T90	4 seconds (w/o splash guard)
Electrical data	Signal output analogue	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	
	Relay specification (optional)	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 77 °C (-40 to 170 °F) without relay	
		-40 to 70 °C (-40 to 158 °F) with relay	
	Pressure	20.7 to 38.4 inch Hg / 700 to 1300 mbar	
	Humidity	0 to 100 % RH, non-condensing	
Housing	Transmitter housing	Epoxy-coated copper free aluminium or SS316 L stainless steel	
	Sensor housing	SS316 L stainless steel	
	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), approx.	w/o docking station	11.0" x 5.9" x 5.1" / 280 x 150 x 130 mm
		w/ docking station	11.0" x 7.1" x 7.5" / 280 x 180 x 190 mm
	Weight, approx.	w/o docking station, aluminum	8.6 lbs / 3.9 kg
		w/o docking station, SS316 L stainless steel	12.6lbs / 5.7 kg
		w/ docking station, aluminum	11.5 lbs / 5.2 kg
		w/ docking station, SS316 L stainless steel	15.7 lbs / 7.1 kg
Approvals*	UL	Class I, Div 1, Groups 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 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/+80 °C; ›d‹ version	
		Ex db eb IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80 °C; ›e‹ version	
		Ex tb IIIC T80/130 °C Db	
	ATEX	II 2G Ex db IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80 °C; ›d‹ version	
		II 2G Ex db eb IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80 °C; ›e‹ version	
		II 2D Ex tb IIIC T80/130 °C Db	
	CE markings	ATEX (Directive 2014/34/EU)	
		Electromagnetic Compatibility (Directive 2014/30/EU)	
		Low Voltage (Directive 2014/35/EU)	

* All docking station versions are only ATEX/IECEx approved

Ordering Information

Dräger Polytron® 5720 IR	Approval Code	Order Number
(incl. splash guard and status indicator)		
Dräger Polytron® 5720 IR d A	ITR 0250	83 44 200
Dräger Polytron® 5720 IR d A relay	ITR 0251	83 44 201
Dräger Polytron® 5720 IR d S relay	ITR 0351	83 44 203
Polytron® 5xx0 Kit		83 44 500
(Custom configuration e.g. stainless steel housing)		

Accessories	Order Number
Magnetic wand	45 44 101
Pipe mount bracket	45 44 198
Duct mount kit	68 12 300
Duct mount kit Flow Cell for PIR 7x00	68 11 945
Duct mount kit Bump Test Adapter for PIR 7x00	68 11 990
Status indicator for PIR 7200	68 11 920
Splash guard for PIR 7200	68 11 912
Flow Cell for PIR 7200	68 11 910
Bump Test Adapter for PIR 7200	68 11 930
Insect guard for PIR 7x00	68 11 609
Hydrophobic filter for PIR 7x00	68 11 890
Calibration adapter for PIR 7x00	68 11 610
PolySoft licence (1 year)	68 28 600
PolySoft licence (subscription)	68 28 601
PolySoft Premium licence (1 year)	83 28 639
PolySoft Premium licence (subscription)	83 28 640
Process cuvette for PIR 7x00, POM (Polyoxymethylene)	68 11 915
Process cuvette for PIR 7x00, stainless steel	68 11 415
Process cuvette for PIR 7x00, SGR	68 13 219
Aluminium junction box for remote sensor "d"	45 44 099
Stainless steel junction box for remote sensor "d"	45 44 098
Spacer	68 12 617
Dräger PIR 7200 for remote sensor "e" variant	68 12 290
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Windows® is a registered trademark of Microsoft Corporation.	

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