

GENERAL	1	Manufacturer		Dräger			
	2	Model		Polytron 5310			
	3	Application		Measurement of Hydrocarbon Gasses and Vapours (excluding Hydrogen)			
	4	Standard gas categories		Methane, propane, ethylene			
	5	Safety Integrity Level (SIL)		SIL 2			
	6	Measurements		295 x 150 x 130mm / 11.6" 5.8" x 5.1"			
	7	Weight		2.2 kg / 4.9 lbs (Aluminium) / 4.0 kg / 8.8 lbs (Stainless Steel 316) without ebox			
	8	Display		4 digit backlit LCD; 3 status LEDs (green/yellow/red)			
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SENSOR	11	Sensor Type		Infrared			
	12	Measuring Range (LEL)		0-100% LEL			
	13	Hazardous area protection		ATEX, IECEx, UL & CSA			
	14	Accuracy		0.5% LEL			
	15	Repeatability		≤ ± 2% LEL			
	16	Response time T.90		< 30 seconds, Methane (with splash guard and calibration adaptor)			
	17	Sensor life		> 10Years, typically 15years			
	18	Recommended calibration frequency		6 to 12 months (non intrusive)			
	19	Ambient Conditions: Temperature		-40 to +65°C / -40 to + 150°F			
	20	Ambient Conditions: Pressure		700 to 1300 hPa / 20.7 to 38.4 inch Hg			
	21	Ambient Conditions: Humidity		0 - 100% RH non condensing			
	22	Ambient: Maximum Air Velocity		≤ 6 m/s / ≤ 19.5 ft./s - TBC			
	23	Remote sensor		Epoxy-coated copper free Aluminium / Stainless Steel 316L Junction Box			
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TRANSMITTER	26	Type		Microprocessor based Gas Transmitter with IR Technology			
	27	Output signals:					
	28	Analogue:	Normal	4-20 mA			
	29	Analogue:	Fault signal	<1.2 mA			
	30	Analogue:	Maintenance	Steady 3.4 mA or 4 mA ± 1 mA 1 Hz modulation (user selectable)			
	31	Power Supply		10 - 30 VDC, 3 wire			
	32	Power consumption		95mA @ 24VDC w/o Relays & 145mA @ 24VDC with remote sensor			
	33	Maximum in-rush current		300mA for 140ms @ 24 VDC w/o Relays & 350mA @ 24VDC with Relays			
	34	Electrical connection		M20 or 3/4" NPT			
	35	Hazardous area protection		ATEX, IECEx & UL			
	36	Housing environmental protection		NEMA 4X & 7, IP 65/66/67			
	37	Housing material		Aluminium / Stainless Steel 316			
	38	Sensor failure indication		Yes			
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ACCESSORIES	41	Calibration Access.	Part No.	Calibration Adaptor	68 10 859		
	42	Calibration Access.	Part No.	Magnetic Wand	45 44 101		
	43	Accessories	Part No.	Splash Guard	68 10 796		
	44	Accessories	Part No.	Gassing/Process Adaptor	68 11 330		
	45	Accessories	Part No.	Duct Mounting Kit	68 12 725		
	46	Accessories	Part No.	e-Box Power only version (includes 1 cable gland)	68 12 420		
	47	Accessories	Part No.	e-Box Power, Relay &/or Remote version (incl. 2 cable glands)	68 12 275		
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ORDERING INFO	50	Transmitter+Sensor	Part No.	Cert. Ref No.	Polytron 5310 d Aluminium w/o relays	45 44 370	XTR 0200
	51	Transmitter+Sensor	Part No.	Cert. Ref No.	Polytron 5310 d Aluminium with Relay	45 44 371	XTR 0201
	52	Transmitter+Sensor	Part No.	Cert. Ref No.	Polytron 5310 d Stainless Steel w/o Relays	45 44 372	XTR 0300
	53	Transmitter+Sensor	Part No.	Cert. Ref No.	Polytron 5310 d Stainless Steel with Relays	45 44 373	XTR 0301
	54	Transmitter+Sensor	Part No.	Cert. Ref No.	Polytron 5310 e Aluminium w/o relays	45 44 374	XTR 020I
	55	Transmitter+Sensor	Part No.	Cert. Ref No.	Polytron 5310 e Aluminium with Relay	45 44 375	XTR 020J
	56	Transmitter+Sensor	Part No.	Cert. Ref No.	Polytron 5310 e Stainless Steel w/o Relays - Remote Version	45 44 376	XTR 020I
	57	Transmitter+Sensor	Part No.	Cert. Ref No.	Polytron 5310 e Stainless Steel with Relays - Remote Version	45 44 377	XTR 020J
	58	Sensors	Part No.		DrägerSensor IR (NPT)	68 11 901	
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APPROVALS	61	Approvals		SIL 2 verified by Exida FMEDA report hardware only			
	62	Approvals		ATEX: II 2G Ex d(e) IIC T6, II 2D IP6X T80 °C			
	63	Approvals		IECEx: Ex d(e) IIC T6, DIP A21 IP6X T80 °C			
	64	Approvals		UL: Class I, Div. 1, Groups A, B, C, D, Class II, Div. 1, Groups E, F, G			
	65	Approvals		CSA: Class I, Div. 1, Groups A, B, C, D			
	66	Approvals		CE Mark: electromagnetic compatibility (directive 2004/108/EC))			
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Polytron 5310
PN 45 44 XXX



Magnetic Wand
PN 45 44 101



Calibration Adaptor
PN 68 10 859



Splash Guard
PN 68 10 796

			INSTRUMENT SPECIFICATION Polytron 5310 FLAMMABLE GAS DETECTOR (IR Point)			
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No.	By	Date	Description	Code :	Dwg. No. :	Rev.: