

Technical Data

Dräger PIR 7000

Type	Explosion proof gas transmitter with infrared sensor technology	
Principle of operation	Temperature-compensated infrared absorption, 4-beam technology	
Gases and ranges	Methane, propane, ethylene	0 to 20...100 %LEL
	Methane	0 to 100 % vol.
	Further substances and measuring ranges on request	
Measuring performance (type 334, methane, 0 to 100 %LEL)	Digital resolution	0.5 %LEL
	Repeatability	$\leq \pm 1$ %LEL
	Response time $t_{0..90}$	≤ 4 seconds ("normal response") < 1 second ("fast response")
	Long-term drift	$\leq \pm 1$ %LEL after 12 months
Electrical data	Output signals	4 to 20 mA, HART®
	Fault signal	≤ 1.2 mA (configurable)
	Beam block warning signal	2 mA (configurable)
	Maintenance signal	3 mA (configurable)
	Power supply	13 to 30 V DC, 3-wire
	Power consumption	5.6 W (typical)
Ambient conditions	Temperature	- 40 to + 77 °C / - 40 to + 170 °F (operating) - 40 to + 85 °C / - 40 to + 180 °F (storage)
	Humidity	0 to 100 %RH
	Pressure	700 to 1300 hPa / 23.6 to 32.5 inch Hg
	Material	Stainless steel SS 316L
Enclosure	Connecting thread	M25 or ¾" NPT
	Weight	2.2 kg (without accessories)
	Dimensions	160 mm x Ø 89 mm / 6.3 " x Ø 3.5 "
	Ingress protection	IP 66 and IP 67, NEMA 4X
Approvals	ATEX	II 2G Ex d IIC T6 / T4 Gb (-40 to +40 °C / +80 °C) II 2D Ex tb IIIC T80 °C / T130 °C Db IP65 (-40 to +40 °C / +80 °C)
		Ex d IIC T6 / T4 Gb (-40 to +40 °C / +80 °C) Ex tb IIIC T80 °C / T130 °C Db IP65 (-40 to +40 °C / +80 °C)
		Class I, Div. 1, Groups A, B, C, D / Class I, Zone 1, Group IIC Class II, Div. 1, Groups E, F, G
		Class I, Div. 1, Groups B, C, D Class II, Div. 1, Groups E, F, G
	UL (Classified)	Class I, Div. 1, Groups B, C, D Class II, Div. 1, Groups E, F, G
		Class I, Div. 1, Groups B, C, D Class II, Div. 1, Groups E, F, G
	CSA (C-US)	Class I, Div. 1, Groups B, C, D Class II, Div. 1, Groups E, F, G
		Class I, Div. 1, Groups B, C, D Class II, Div. 1, Groups E, F, G
	Safety Integrity Level	SIL2 certified by TÜV (EN 61508, EN 50402)
	CE mark: electromagnetic compatibility (directive 89/336/EEC)	

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Dräger PIR 7000 type 334 (NPT) HART®	68 11 552
Dräger PIR 7000 type 334 (M25) HART®	68 11 550