

Gas Detector

ProGas

Product code: PW-017-X







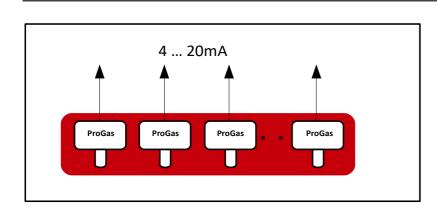
A wide range of sensors

Information about the product

Innovation

Gas Detector **ProGas** is stationary device, designed to detect and monitor levels of toxic gases, explosive gases and oxygen in the ambient atmosphere. The gas detector measures the concentration of a given component, and then converts it to electric signal compatible with other devices of the gas detection system. In addition to the measurement, the detector analyses the value of the measured concentration and may provide information about Alarms. **ProGas** is a self-diagnostic device – and in the case of detection of malfunctions, it informs the user about it.

Location and role of the Gas Detector in Gas Safety System

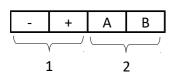


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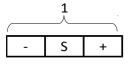


Electrical interface

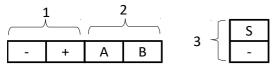


Connection diagram (RS-485)

No.	Name	Pin	Description		
	Power Supply		Power supply port		
1		-	Negative		
	Suppry	+	Positive		
2	SBUS		System communication port. Used for data exchange between devices in Sigma Gas system.		
		А	Signal line A		
		В	Signal line B		



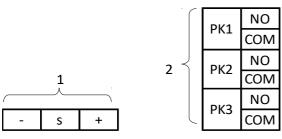
Connection diagram (420)



Connection diagram (RS-485 + 420)

No.	Name	Pin	Description	
	Power Supply / 420		Power port	
		-	Negative	
		+	Positive	
		S	Active current output	

No.	Name	Pin	Description		
			Power supply port		
1	Power Supply	-	Negative (internally circuited with a negative of the port 420)		
		+	Positive		
2	SBUS		System communication port. Used for data exchange between devices in Sigma Gas system.		
		A	Signal line A		
		В	Signal line B		
	Output port of 420 signal		Output port of 420 signal		
3	420	S	Active current output		
		-	Negative (internally circuited with a negative of the port 420)		

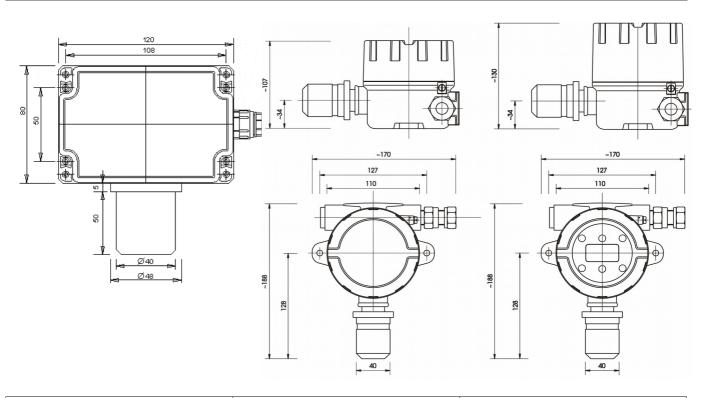


Connection diagram (420 + PK)

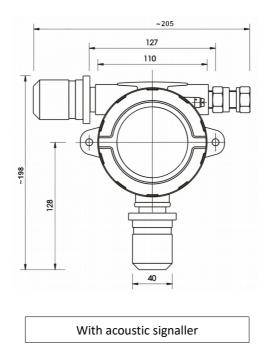
No.	Name	Pin	Description	
	Power Supply / 420		Power port	
1		-	Negative	
1		+	Positive	
		S	Active current output	
2	PK1 – PK3	NO	Normally open contact of relay	
2		сом	Common terminal of relay	



Dimension



Gas Detector type PW-017	Without display	With display	
(option E = ABS, PC)	Gas Detector type PW-017 (option E = ALB, ALZ, C, SS)		



Detailed information on marking the hardware configuration can be found in the User's Manual POD-010.

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Technical specification

Power supply Voltage V cc Power Environment	12 – 30 V 0,48 – 3,6 W		Integrated signalling equipment (optical)	Alphanumeric display 2x8 of the LCD type with LED indicators (option D = LCD, option not available for E = ABS, PC) Multicolour status display FLED (D = FLED, D = FLED.A)
Ambient temperaturesHumidity	-20 – +40°C (option -40 – +85°C (option 10 – 90% long term	,	Integrated signalling equipment (acoustic)	70 dB at a distance of 1 m (option D = FLED.A)
Pressure	Pressure 0 – 99% short term 1013 hPa ± 10% Any of the above parameters can be limited by the parameters of the sensor		Protection class	ш
			Cable glands Cable diameter range 	6 – 12 mm (E = ABS, PC)
Measured substance	Compliant with the Certificate	order or Calibration	External thread	7 – 13 mm (E = ALB, ALZ) 8 – 13 mm (E = SS, C) M20
Measurement range	As above		Acceptable cables	0,5 – 2,5 mm²
IP	uninterrupted gas	, , ,		cable glands 2 x 1 mm ² or 2 x 0.75 mm ² should be used for double wires
			Enclosure material	 ABS, PC Aluminium spray epoxy / SS316L (option E = Alx) Aluminium creodur epoxy/ SS316L
		IP 65		(option E = C) • SS316L (option E = SS)
			Weight	About 3,8 kg
Analogue output parameters 4 – 20 mA • ROBC_MAX	(option O = A / O = D 200 Ω	, X = AL)	Mandatory periodic inspection	Every 12 months (Calibration Certificate validity) – the time can be shortened because of the difficult working conditions
Digital output parameters Number of relay 	(option X = PK) 3 Floating contacts 3 x NO / negative, 24 V DC, 0,2 A Not protected against overloading		Mounting	 4 holes for screw diameter 4.5 mm lub M4 (option E = ABS, PC) 2 holes for screw diameter 4 mm (option E = ALB, ALZ, C, SS)
Digital communication parameters • Electric standard • Communication protocol	(option O = D) • RS-485 • Modbus ASCII 19	9200 7E1		(000001 E - ALD, ALL, C, DJ)

Product marking

Туре	Description	Product code
Gas Detector	ProGas	PW-017-PG-X

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