

Gas Detector

RapidGas S

Product code: PW-119-X



Innovations



Integrity



A wide range of sensor

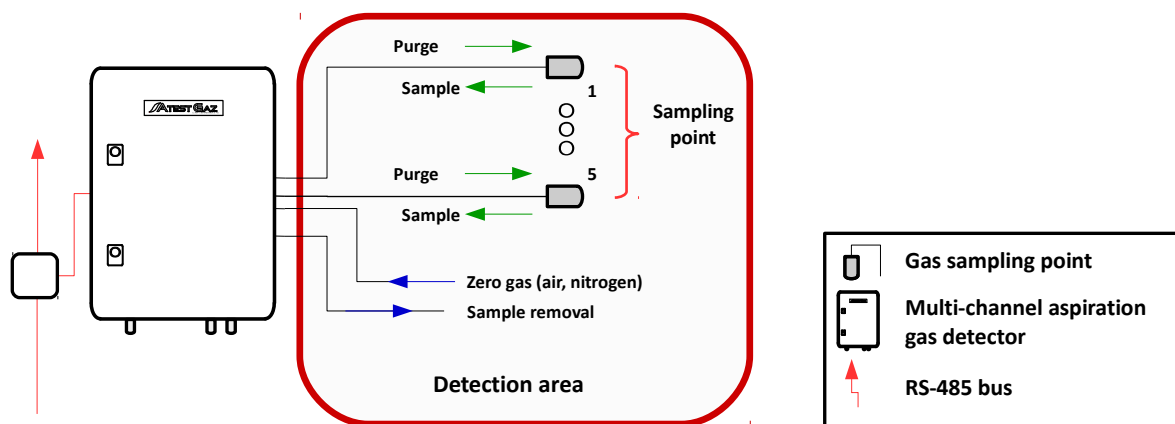


Information about the product

The RapidGas S device is a multi-channel (1 to 5 channels) gas detector designed to measure concentration of toxic or explosive gas in surrounding atmospheres by aspirated sampling of gas mixtures at a specific number of locations. By means of sampling intakes, gas lines and a suction pump embedded inside the detector, gas samples are aspirated from the atmosphere and conveyed to gas sensors incorporated into the device interior. These sensors measure concentration of various gases and afterwards the samples are returned to the atmosphere.

The RapidGas S is a general purpose hardware platform that makes it possible to collaborate with virtually all types of gas detectors. It enables customizing of the gas detection system design according to specific arrangements of the facility and local conditions, since the set of configurable parameters include types of gases to be detected, range and accuracy of measurements, response time, ambient temperature, humidity, etc.

Location and role of the device in Gas Safety System



Electrical interface 24 V

-	+	A	B
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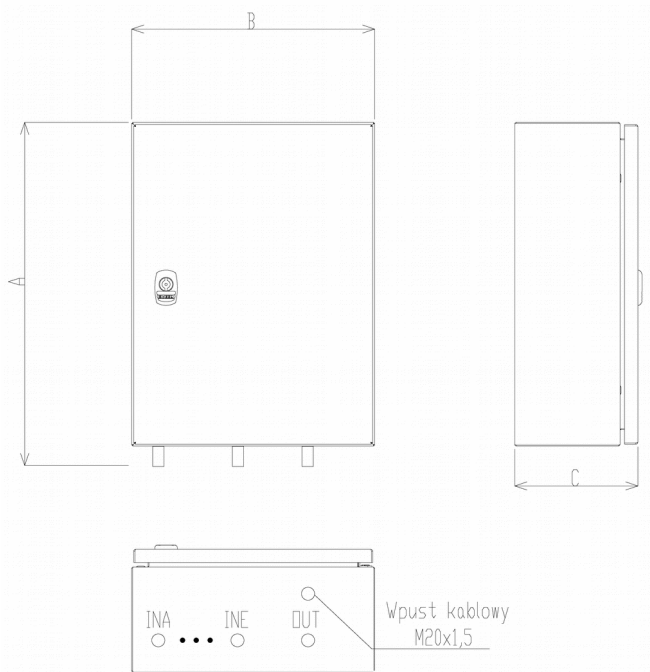
No.	Name	Pin	Description
1	Power supply		Device power supply port
		-	Negative
		+	Positive
2	Communication port		System communication port
		A	Signal line A
		B	Signal line B

Electrical interface 230 V

A	B	E	L	N	PE
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No.	Name	Pin	Description
1	Communication port		System communication port
		A	Signal line A
		B	Signal line B
		E	Shield
2	Power supply		Device power supply port
		L	Phase wire
		N	Neutral wire
		PE	Protective earth wire

Dimension

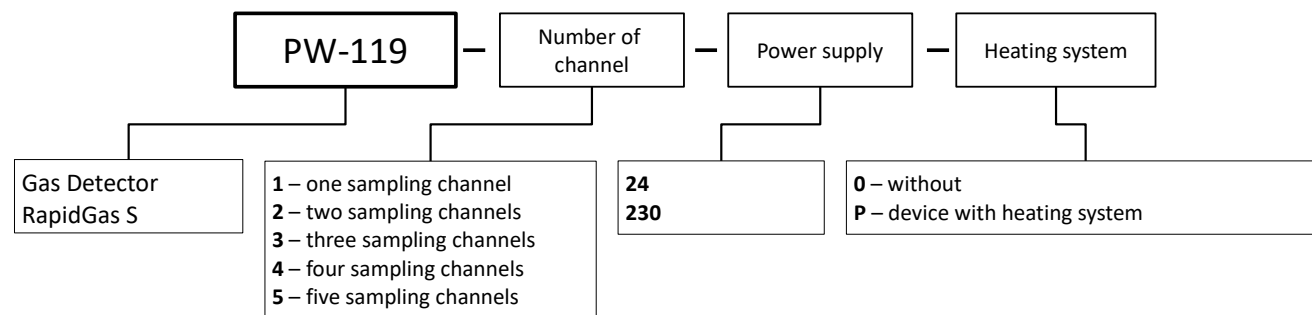


Number of channel	Dimension A	Dimension B	Dimension C
1	425	300	200
2	425	300	200
3	625	400	200
4	625	600	250
5	625	600	250

Technical specification

Power supply	15 – 30 V $\ddot{\text{~}}$ / 230 V \sim 25 / 100 / 150 W	
Environment	In operation	Storage
• Ambient temperatures	0 – 40°C	0 – 40°C
• Humidity	10 – 90% long term 0 – 99% short term	30 – 90% long term
• Pressure	1013 \pm 10% hPa	
• pH	5,5 – 7	
Sampling method	Aspiration	
Quantity of measuring channels	1 – 5	
Time parameters	T90 – depends on the type of sensor and the length and diameter of the gas path – see Calibration Certificate	
IP	IP 53	
Protection class	III	
Pneumatic interface parameters	Type of compatible connector	
	BSP 60° 1/4"	
Digital communication parameters	Port	
• Electric standard	RS-485	
• Communication protocol	Sigma BUS	
Cable glands	Cable diameter range	
• External thread	8 – 13 mm M20 x 1,5	
Acceptable cable	0,5 – 2,5 mm ² (solid wire) 0,5 – 1,5 mm ² (multi-wire cable)	
Enclosure material	SS316L	
Weight	5 – 20 kg	
Mandatory periodic inspection	Every 12 months (Calibration Certificate validity)	

Product marking



Example:

PW-119-1-24-0 – Gas Detector RapidGas S, one sampling channel, power supply 24 V, unheated sample.

List of accessories

Product code	Description
PW-094-A	Gas sampling point
V76A	Internal filter
AF-HDSB-06AS	HYPERLINE SB ¼" hose, internal diameter 6.7 mm, immune to static electricity



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