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BTN Series Gas Detectors Datasheet



Cost-Effective Solutions

"BTN" Series offers cost-effective solutions for light industries.

Light-Weight Housing

BTN with ABS plastic and IP54 protected housing is designed for indoor applications.

Relay Contacts

On board provided relay contacts allow to manage other equipment such as siren, flasher. Also, it can be linked to firefighting panels.

Sensitive Sensors

High quality Catalytic, Electrochemical and Semi-Conductor sensors employed BTN Series detectors show excellent results in LEL, ppm and VOL ranges.

Optional Universal Communication Protocols

Thanks to Optional Modbus RS485 RTU Module, BTN can be managed as addressable detector.

Fail-Safe Technology Alarming

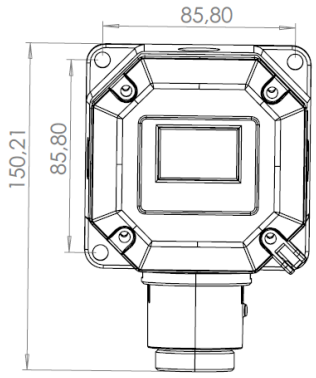
Alarm 1 and Alarm 2 relays are easy to set to default LEL, ppm, VOL levels. The fault relay output properly indicates fault status.

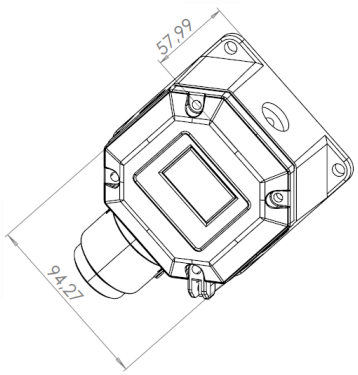
Applications

- *Safe-area applications*
- *Laboratories*
- *Food and Medicine Facilities*
- *Kitchens*

Optional Modules

BTN-RS: Modbus RS485 RTU interface module





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Specifications	BTN-XY44	BTN-XY42	BTN-XY41
Sensing Element	Electrochemical	Catalytic	Semi-Conductor
Output Signal	2 Alarms and 1 Fault		
Sensor Warm-up Time	60sec		
Response Time (T90)	<30*sec	<25sec	<15sec
Accuracy	%±2		
Operating Temperature	-20°C ~ +50°C		
Humidity	5 ~ 95%RH		
Input	Min 10VDC - Max 28VDC - Nominal 24VDC		
Power Consumption	Max. 3W		
Optional Outputs	Modbus RS485 RTU**		
Cable Entry	3 x PG11		
IP Rating	IP54		
Junction Box	ABS Plastic		
Sensor Head	ABS Plastic		
Dimensions/Weight	150x94,5x58mm / 250gr		

*Sensor dependent.
**When you choose work with this option, you can get only Alarm1 and Fault relay outputs.

XY	Gas	Product Code	Sensor Type	Measuring Range
30	LPG	BTN-3042	Catalytic	0-100%LEL
31	Methane	BTN-3142	Catalytic	0-100%LEL
33	n-Butane	BTN-3342	Catalytic	0-100%LEL
34	Propane	BTN-3442	Catalytic	0-100%LEL
36	Hydrogen	BTN-3642	Catalytic	0-100%LEL
37	Pentane	BTN-3742	Catalytic	0-100%LEL
44	Carbon monoxide	BTN-4444	Electrochemical	0-300ppm
64	Hydrogen Sulphide	BTN-6444	Electrochemical	0-100ppm
65	Oxygen	BTN-6544	Electrochemical	0-25%VOL
69	Chlorine	BTN-6944	Electrochemical	0-10ppm
72	Freon	BTN-7241	Semi-Conductor	0-2000ppm
72	Freon	BTN-7241/A*	Semi-Conductor	0-2000ppm
90	Air Quality	BTN-9041	Semi-Conductor	0-30ppm
91	A2L Class Refrigerants	BTN-9141	Semi-Conductor	0-10000ppm

**BTN-7241/A comes with 10m cable for specific applications.*
Prosense gas detectors are fully tested and calibrated before delivery. Gas detectors must always be routinely controlled and calibrated regarding EN 60079-29-2.

For more information please contact with info@prosense.com.tr

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PC3 Series Gas Detectors Datasheet



High Price-Performance Ratio
PC3 has a certain higher price-performance ratio considering its substitutes in the market.

Well-Suited Solution for Light Industry
PC3 is specially designed for the light industry as a Category 3 device.

Accurate Readings
Electrochemical, and Catalytic sensors undoubtedly provide an accurate and sensitive measurement.

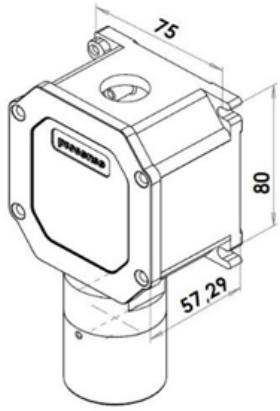
Ready to Operate
4-20mA Analog is provided onboard to operate properly without any additional setup. Additionally, it can be integrated into other systems with Modbus RS485 RTU and relay module.

Automatic Calibration
Detector calibration can be done automatically via preset values recorded in detector software once calibration requirements are provided.

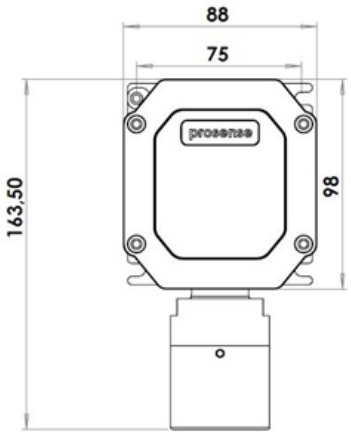
Fail-Safe Technology Alarming
Alarm 1 and Alarm 2 relays are easy to set to default LEL, ppm, VOL levels. The fault relay output properly indicates fault status.

Robust and Reliable Housing
Epoxy painted aluminum housing and IP65 protection class allow to use in harsh environmental conditions.

Universal Outputs
4-20mA Analog, Modbus RS485 RTU, and relay outputs are simple to operate efficiently and they are universally usable in any control panel.



Applications
- *Process Industry*
- *Chemical Industry*
- *Food and Medicine Facilities*
- *Gas Distribution Stations*
- *Laboratories*



Optional Modules
- **P-3R+:** 2 Alarms and 1 Fault (NO/NC adjustable) relay output card.

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Specifications	PC3-XY24	PC3-XY12
Sensing Type	Electrochemical	Catalytic
Output Signals	4-20mA Analog Modbus RS485 RTU*	
Sensor Warm-Up	60sec	
Response Time	<30**sec	<25sec
Accuracy	%±1	
Operating Temperature	-20°C ~ +50°C	
Humidity	5 ~ 95%RH Non-Condensing	
Input Voltage	Min 10VDC - Max 32VDC - Nominal 24VDC	
Power Consumption	Max.2W	
Optional Relay Outputs	2 Alarms (Selectable), and 1 Fault (All relays are NO/NC adjustable)	
Cable Entry	1x 1/2"NPT	
Ingress Protection	IP65	
Enclosure	Epoxy Painted Die-cast Aluminium	
Sensor Head	Nickel-plated Brass SH20	Nickel-plated Brass SH10
Dimensions	230x120x100mm	190x110x70mm
Weight	1100gr	810gr
Hazardous Class	Zone 2 - Category 3	
Standards (Sensor Head)	•EN 60079-0 •EN 60079-1 •EN 60079-18	

* To manage MODBUS Address optional Prosense Hand Terminal must be ordered.
** Sensor dependent.

XY	Gas	Product Code	Sensor Type	Measuring Range*
30	LPG	PC3-3012	Catalytic	0-100%LEL
31	Methane	PC3-3112	Catalytic	0-100%LEL
33	n-Butane	PC3-3312	Catalytic	0-100%LEL
34	Propane	PC3-3412	Catalytic	0-100%LEL
36	Hydrogen	PC3-3612	Catalytic	0-100%LEL
37	Pentane	PC3-3712	Catalytic	0-100%LEL
44	Carbonmonoxide	PC3-4424	Electrochemical	0-300ppm
48	Ammonia	PC3-4824	Electrochemical	0-100ppm
48	Ammonia	PC3-4824/B	Electrochemical	0-1000ppm
62	Ethylene Oxide	PC3-6224	Electrochemical	0-20ppm
64	Hydrogen Sulfide	PC3-6424	Electrochemical	0-100ppm
65	Oxygen	PC3-6524	Electrochemical	0-25%VOL
66	Sulfur Dioxide	PC3-6624	Electrochemical	0-10ppm
67	Nitric Oxide	PC3-6724	Electrochemical	0-250ppm
68	Nitrogen Dioxide	PC3-6824	Electrochemical	0-30ppm
69	Chlorine	PC3-6924	Electrochemical	0-10ppm

** Please consult Prosense sales team for specific measuring ranges and other gases those are not listed here.*
Prosense gas detectors are fully tested and calibrated before delivery. Gas detectors must always be routinely controlled and calibrated regarding EN 60079-29-2.

For more information please contact with info@prosense.com.tr

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P Series Gas Detectors Datasheet



Trustworthy Certification
PROSENSE "P" Series fixed gas detectors are certified with ATEX/IECEx.

Ex-proof Safety
The continuous measurement of toxic and explosive gases is done safely in hazardous areas thanks to the ex-proof housing.

Robust and Durable
SS316 stainless steel sensor head performs perfectly under harsh environmental conditions with the IP65 protection class.

Accurate Readings
Pellistor, Electrochemical, and Infrared sensors undoubtedly provide an accurate and sensitive measurement.

Ready to Operate
4-20mA Analog and Modbus RS485 RTU outputs are provided onboard to operate properly without any additional setup.

Easy Maintenance
P Series detectors allow sensor replacement with pre-calibrated sensor head thanks to the Procell technology.

Automatic Calibration
Detector calibration can be done automatically via preset values recorded in detector software once calibration requirements are provided.

Pellistor-Saver Mode
Detectors power off sensor in high gas concentration in order to properly secure the operational lifetime of Pellistor sensor.

Auto Analog Signal Monitoring
P Series detectors carefully check the analog output signal level continuously to match the measurement level before promptly transferred to the panel. P Series adjust the signal level in case of any deviation and generate fault signal when adjustment fails.

Universal Communication Protocols
- *4-20mA Analog and Modbus RS485 RTU outputs are simple to operate efficiently.*
- *P Series open-source Modbus codes support successful integration to SCADA systems.*
- *P-3R+ relay module can be properly integrated into P Series detectors for extra operations.*

Zero Suppression
Adjusting, the detector will show a certain measurement level as 0 (zero) to avoid unnecessary concerns.

Fail-Safe Technology Alarming
Alarm 1 and Alarm 2 relays are easy to set to default LEL, ppm, VOL levels. The fault relay output properly indicates fault status.

Continuous Self-Test
The detectors check itself continuously to make sure it operates perfectly and indicates a fault in case of any failure.

Maintenance via Software
Prosense provides software to maintain your active system easily and calibrate the gas detectors properly via computer.

Applications
- *Process Industry*
- *Water Treatment*
- *Chemical Industry*
- *Food and Medicine Facilities*
- *Metal Industry*
- *Gas Distribution Stations*
- *Laboratories*

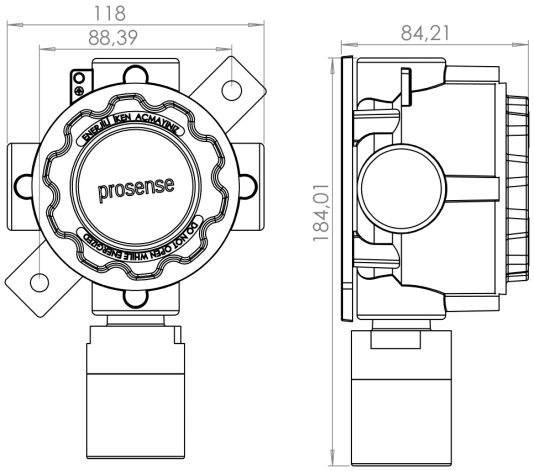
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Specifications	P-XY35	P-XY34	P-XY33	P-XY31
Sensing Element	Pellistor	Electrochemical	Infrared	Semi-Conductor
Output Signal	4-20mA and Modbus RS485 RTU*			
Sensor Warm-up Time	60sec			
Response Time (T90)	<20sec	<30sec**	<30sec	<15sec
Accuracy	%±1			
Operating Temperature	-40°C ~ +70°C			
Humidity	5 ~ 95%RH			
Input	Min 10VDC - Max 32VDC - Nominal 24VDC			
Power Consumption	Max. 4W			
Optional Relay Outputs	2 Alarm Relays (NO/NC adjustable) 1 Fault Relay (NO)			
Cable Entry	2 x 1/2"NPT			
IP Rating	IP65 / Optional IP66 (Sensor Head)			
Junction Box	Epoxy Painted Die-Cast Aluminum			
Sensor Head	316L Stainless Steel			
Dimensions/Weight	183x118,15x88mm / 1420gr			
ATEX Marking	II 2G Ex db IIC T5/T4 Gb			
Hazardous Class	Zone 1 or Zone 2			
Certificates	• IMQ 19 ATEX 045 X • IECEx IMQ 18.0009X			
Standards	• IEC EN 60079-0 • IEC EN 60079-1 • IEC EN 60079-18			

* To manage MODBUS Address optional Prosense Hand Terminal must be ordered.
** Sensor dependent.



Optional Modules

- **P-3R+:** 2 Alarms and 1 Fault (NO/NC adjustable) relay output card.
- **P-IP66:** 316L Stainless steel sensor head adaptor to increase IP rating.
- **P-GTA:** Ceiling mount collecting
- **UPQ-BTX:** Enclosure with 4 entries.
- **P-ASU:** Sampling Unit
- **PQ-PD05: Prosense** Hand Terminal

For more information please contact with info@prosense.com.tr

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XY	Gas	Product Code	Sensor Type	Measuring Range*
30	LPG	P – 3035	Pellistor	0-100%LEL
30	LPG	P – 3033	Infrared	0-100%LEL
31	Methane	P – 3135	Pellistor	0-100%LEL
31	Methane	P – 3133	Infrared	0-100%LEL
32	Petrol Vapours	P – 3235	Pellistor	0-100%LEL
32	Petrol Vapours	P – 3233	Infrared	0-100%LEL
33	n-Butane	P – 3335	Pellistor	0-100%LEL
33	n-Butane	P – 3333	Infrared	0-100%LEL
34	Propane	P – 3435	Pellistor	0-100%LEL
34	Propane	P – 3433	Infrared	0-100%LEL
35	Hexane	P – 3535	Pellistor	0-100%LEL
35	Hexane	P – 3533	Infrared	0-100%LEL
36	Hydrogen	P – 3635	Pellistor	0-100%LEL
37	Pentane	P – 3735	Pellistor	0-100%LEL
37	Pentane	P – 3733	Infrared	0-100%LEL
38	Toluene	P – 3835	Pellistor	0-100%LEL
39	Methyl Alcohol	P – 3935	Pellistor	0-100%LEL
40	Heptane	P – 4035	Pellistor	0-100%LEL
41	Octane	P – 4135	Pellistor	0-100%LEL
42	Ethyl Alcohol	P – 4235	Pellistor	0-100%LEL
43	Iso Propanol	P – 4335	Pellistor	0-100%LEL
44	Carbon monoxide	P – 4434	Electrochemical	0-300ppm
44	Carbon monoxide	P – 4434/B	Electrochemical	0-500ppm
44	Carbon monoxide	P – 4434/C	Electrochemical	0-1000ppm
44	Carbon monoxide	P – 4435	Pellistor	0-100%LEL
45	Acetone	P – 4535	Pellistor	0-100%LEL
46	Methyl Ethyl Ketone	P – 4635	Pellistor	0-100%LEL
47	Ethyl Acetate	P – 4735	Pellistor	0-100%LEL
48	Ammonia	P – 4834	Electrochemical	0-100ppm
48	Ammonia	P – 4834/B	Electrochemical	0-1000ppm
48	Ammonia	P – 4835	Pellistor	0-100%LEL
49	Ethylene	P – 4935	Pellistor	0-100%LEL
50	Acetic Acid	P – 5035	Pellistor	0-100%LEL
51	Butyl Acetate	P – 5135	Pellistor	0-100%LEL
52	Cyclo Hexane	P – 5235	Pellistor	0-100%LEL
53	Cyclo Pentane	P – 5335	Pellistor	0-100%LEL
54	Dioxane	P – 5435	Pellistor	0-100%LEL
55	Ethane	P – 5535	Pellistor	0-100%LEL
56	Butyl Alcohol	P – 5635	Pellistor	0-100%LEL
57	Styrene	P – 5735	Pellistor	0-100%LEL
58	Propylene	P – 5835	Pellistor	0-100%LEL

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XY	Gas	Product Code	Sensor Type	Measuring Range*
59	Xylene	P – 5935	Pellistor	0-100%LEL
60	Acetylene	P – 6035	Pellistor	0-100%LEL
61	Benzene	P – 6135	Pellistor	0-100%LEL
62	Ethylene Oxide	P – 6234	Electrochemical	0-20ppm
63	Vinyl Acetate	P – 6335	Pellistor	0-100%LEL
64	Hydrogen Sulfide	P – 6434	Electrochemical	0-100ppm
64	Hydrogen Sulfide	P – 6434/B	Electrochemical	0-500ppm
65	Oxygen	P – 6534	Electrochemical	0-25%VOL
66	Sulphur Dioxide	P – 6634	Electrochemical	0-10ppm
67	Nitric Oxide	P – 6734	Electrochemical	0-250ppm
68	Nitrogen Dioxide	P – 6834	Electrochemical	0-30ppm
69	Chlorine	P – 6934	Electrochemical	0-10ppm
70	Hydrocarbon	P – 7035	Pellistor	0-100%LEL
70	Hydrocarbon	P – 7033	Infrared	0-100%LEL
71	Carbon Dioxide	P – 7133	Infrared	0-5000ppm
71	Carbon Dioxide	P – 7133/B	Infrared	0-5%VOL
72	Freon	P – 7231	Semiconductor	0-2000ppm
73	JP8 Fuel	P – 7335	Pellistor	0-100%LEL
74	Formaldehyde	P – 7434	Electrochemical	0-10ppm
75	Hydrogen Cyanide	P – 7534	Electrochemical	0-25ppm
77	Nonane	P – 7735	Pellistor	0-100%LEL
78	Acetaldehyde	P – 7835	Pellistor	0-100%LEL
79	Hydrogen Chloride	P – 7934	Electrochemical	0-30ppm
82	Ozone	P – 8234	Electrochemical	*
83	Hydrofluoric Acid (HF)	P – 8334	Electrochemical	*
84	Phosphine	P – 8434	Electrochemical	0-10ppm
85	Isobutylene	P – 8535	Pellistor	0-100%LEL
86	Silane	P – 8634	Electrochemical	*
87	Diborane	P – 8734	Electrochemical	*
88	Arsine	P – 8834	Electrochemical	*
89	Germane	P – 8934	Electrochemical	*
90	Air Quality	P – 9031	Semiconductor	0-30ppm
91	A2L Refrigerant Gas	P – 9131	Semiconductor	0-10000ppm
92	Fluorine	P – 9234	Electrochemical	0-5ppm

** Please consult Prosense sales team for specific measuring ranges and other gases those are not listed here.*
For more information info@prosense.com.tr

Prosense gas detectors are fully tested and calibrated before delivery. Gas detectors must always be routinely controlled and calibrated regarding EN 60079-29-2.

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PE Series Gas Detectors Datasheet

Trustworthy Certification
PROSENSE "PE" Series fixed gas detectors are certified with ATEX/IECEx.

Ex-proof Safety
The continuous measurement of explosive gases is done safely in hazardous areas thanks to the ex-proof housing.

Cost-Effective Solutions
"PE" series offers cost-effective solutions in Oil&Gas industries.

Robust and Durable
"PE" performs perfectly under harsh environmental conditions with the IP65 protection class.

Accurate Readings
Long-lasting Catalytic sensors undoubtedly provide an accurate and sensitive measurement.

Universal 4-20mA Analog Signal Output
4-20mA Analog output is simple to operate efficiently and it is universally usable in any control panel.

Quick Response Time
Catalytic sensor in PE offers quick response time with affordable prices.

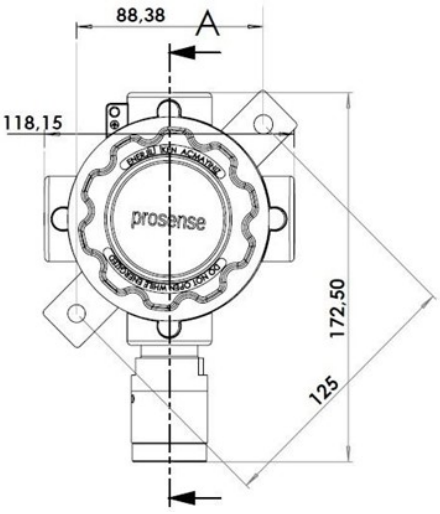
Durable Sensor
PE Series uses a special Catalytic sensor which has a long life-time

Fail-Safe Technology Alarming
Optional relay module is suitable to use as Alarm1 and Fault. Additionally, it can be arranged as Alarm1 and Alarm2.

Applications
- *LNG/LPG*
- *Oil&Gas*
- *Gas Distribution Stations*

Optional Modules
• **PE-2R:** 2 Relays output card (Alarm1-Fault or Alarm1-Alarm2) (NO/NC adjustable)





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Specifications	P-XY12PE
Sensing Element	Catalytic
Output Signal	4-20mA Analog
Sensor Warm-up Time	60sec
Response Time (T90)	<15sec
Accuracy	%±2
Operating Temperature	-40°C ~ +70°C
Humidity	5 ~ 95%RH Non-Condensing
Input	Min 10VDC - Max 28VDC - Nominal 24VDC
Power Consumption	Max. 4W
Optional Relay Outputs	2 Relay Contacts (Alarm1-Fault or Alarm1-Alarm2) (All relays are NO/NC adjustable)
Cable Entry	1/2"NPT
IP Rating	IP65
Junction Box	Epoxy Painted Die-Cast Aluminum
Sensor Head	Nickel-Plated Brass
Dimensions/Weight	172,5x118,15x88mm / 1150gr
ATEX Marking	II 2G Ex db IIC T4-T5 Gb
Hazardous Class	Zone 1 or Zone 2
Certificates	•IMQ 19 ATEX 045 X • IECEx IMQ 18.0009X
Standards	• IEC EN 60079-0 • IEC EN 60079-1 • IEC EN 60079-18

XY	Gas	Product Code	Sensor Type	Measuring Range
30	LPG	P-3012PE	Catalytic	0-100%LEL
31	Methane	P-3112PE	Catalytic	0-100%LEL
32	Petrol Vapour	P-3212PE	Catalytic	0-100%LEL
33	n-Butane	P-3312PE	Catalytic	0-100%LEL
34	Propane	P-3412PE	Catalytic	0-100%LEL
36	Hydrogen	P-3612PE	Catalytic	0-100%LEL

Prosense gas detectors are fully tested and calibrated before delivery. Gas detectors must always be routinely controlled and calibrated regarding EN 60079-29-2.

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PQN Series Gas Detectors Datasheet

Trustworthy Certification

*PROSENSE "PQN" Series fixed gas detectors are certified with **ATEX/IECEx/ UKEX/INMETRO/ECASEx** and **UL/CSA**.*

Ex-proof Safety

The continuous measurement of toxic and explosive gases is done safely in hazardous areas thanks to the ex-proof housing.

Performance Approval

*It complies with the measurement performance criteria in accordance with the **IEC EN 60079-29-1** standard.*

Functional Safety

*Prosense promotes SIL approved products to reduce safety risks associated with increasingly complicated systems as malfunctioning equipment could pose a potential risk. Prosense PQ Series is certified by TUV Rheinland as **SIL2 /SIL3** functional safety level.*

Robust and Durable

SS316 stainless steel sensor head performs perfectly under harsh environmental conditions with the IP65/ IP66 protection class.

Accurate Readings

Pellistor, Electrochemical, PID, and Infrared sensors undoubtedly provide an accurate and sensitive measurement.

Ready to Operate

4-20mA Analog and Modbus RS485 RTU outputs are provided onboard to operate properly without any additional setup.

Easy Maintenance

*PQN Series detectors allow sensor replacement with pre-calibrated sensor head thanks to the **Procell** technology.*



Automatic Calibration

Detector calibration can be done automatically via preset values recorded in detector software once calibration requirements are provided.

Pellistor-Saver Mode

Detectors power off the sensor in high gas concentration in order to properly secure the operational lifetime of Pellistor sensor.

Auto Analog Signal Calibration and Monitoring

PQN Series detectors continuously check the analog output signal level to match the measurement level before promptly transferred to the panel. PQN Series adjusts the signal level in case of any deviation and generates fault signal when the adjustment fails.

Zero Suppression

Adjusting, the detector can show a certain measurement level as 0 (zero) to avoid unnecessary concerns.

Simple External Equipment Control

Optional relay module enables you to use it as an independent gas detection system with two arbitrarily adjustable concentration alarms and one fault alarm.

Continuous Self-Test

The detectors check itself continuously to make sure it operates perfectly and indicates a fault in case of any failure.

Adjustable Parameters

All parameters can be easily changed according to the application requirements or facility standards.

Maintenance via Software

Prosense provides software to maintain your active system easily and calibrate the gas detectors properly via computer.

Remote Display

Depending on the application requirements, a screen can be placed separately.

Applications

- *Process Industry*
- *Water Treatment*
- *Chemical Industry*
- *Food and Medicine Facilities*
- *Metal Industry*
- *Gas Distribution Stations*
- *Laboratories*

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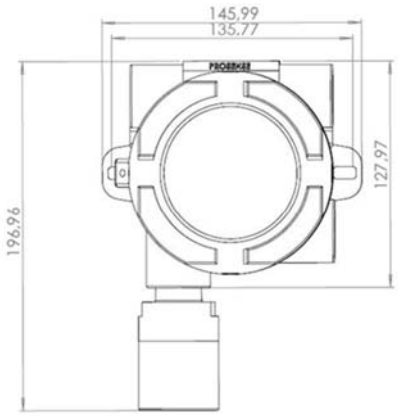
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PQN Series Gas Detectors Datasheet

Sensing Element	PQN-XY36: PID | PQN-XY35: Pellistor | PQN-XY34 :Electrochemical PQN-XY34 :Electrochemical | PQN-XY33: Infrared | PQN-XY31: Semi-Conductor
Output Signal	4-20mA Analog and RS485 Modbus RTU, Optional HART and Relay outputs
Sensor Warm-up Time	60sec
Response Time (T90)	<30sec*
Accuracy	%±1
Operating Temperature	-40°C ~ +70°C *
Humidity	0~ 100%RH * Non-Condensing
Input	Min 10VDC - Max 32VDC - Nominal 24VDC
Display	128x64 Graphic OLED `| 5 LED indicator for detector status
Event logging	Records alarm, fault and maintenance events up to 250 logs
Power Consumption	Max. 4W
Optional Relay Outputs	2 Alarm Relays (NO/NC adjustable) | 1 Fault Relay (NO) (Rating 1.25A 30VDC)
Cable Entry	1/2"NPT - 3/4"NPT - M20
IP Rating	IP65/IP66 | Optional IP66 (Sensor Head)
Junction Box	Epoxy Painted Die-Cast Aluminum / 316 Stainless Steel
Sensor Head	316L Stainless Steel
Dimensions/Weight	196,96x145,99x112mm / 2100gr
Marking	II 2 G Ex db IIC T6 Gb II 2 D Ex tb IIIC T85°C Db Class I, Division 1, Group A, B, C & D Class I, Zone 1, AEx db IIC T6 Gb, Ex db IIC T6 Gb, Zone 21, AEx tb IIIC T85°C Db and Ex tb IIIC T85°C Db
Hazardous Class	Zone 1 - Zone 2 - Zone 21-Zone 22
Certificates	UL Certificate: E521536 ATEX Certificate: UL 21 ATEX 2656X IECEx Certificate: IECEx ULD 21.0033X UKEX Certificate: UL22UKEX2376X Performance Certificate: FTZU 18 ATEX 0086 Functional Safety Certificate: TUV Rheinland- 968/FSP 2091.00/21
Standards	IEC EN 60079-0, UL 60079-0, CSA C22.2 No. 60079-0 IEC EN 60079-1, UL 60079-1, C22.2 No. 60079-1 IEC EN 60079-31, UL 60079-31, •CSA C22.2 No. 60079-31 IEC EN 60079-29-1 UL61010-1, CSA C22.2 No. 61010-1, UL 1203, CSA C22.2 No. 30

*Sensor dependent



Optional Modules

- **PQ-3R+:** 2 Alarms and 1 Fault (NO/NC adjustable) Relay Output Card
- **P-IP66:** 316L Stainless Steel Sensor Head Adaptor to increase IP rating
- **PQN-SS:** Stainless Steel Junction Box
- **P-GTA:** Gas Collection Cone
- **P-ASU:** Prosense Sampling Unit
- **PQ-DISP:** Remote Display
- **PQ-PD05:** PQ Series Hand Terminal
- **P-RSM:** Remote Sensor Module
- **PQ-HART:** HART Module

For more information please contact with info@prosense.com.tr

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XY	Gas	Product Code	Sensor Type	Measuring Range*
30	LPG	PQN – 3035	Pellistor	0-100%LEL
30	LPG	PQN – 3033	Infrared	0-100%LEL
31	Methane	PQN – 3135	Pellistor	0-100%LEL
31	Methane	PQN – 3133	Infrared	0-100%LEL
32	Petrol Vapours	PQN – 3235	Pellistor	0-100%LEL
32	Petrol Vapours	PQN – 3233	Infrared	0-100%LEL
33	n-Butane	PQN – 3335	Pellistor	0-100%LEL
33	n-Butane	PQN – 3333	Infrared	0-100%LEL
34	Propane	PQN – 3435	Pellistor	0-100%LEL
34	Propane	PQN – 3433	Infrared	0-100%LEL
35	Hexane	PQN – 3535	Pellistor	0-100%LEL
35	Hexane	PQN – 3533	Infrared	0-100%LEL
36	Hydrogen	PQN – 3635	Pellistor	0-100%LEL
37	Pentane	PQN – 3735	Pellistor	0-100%LEL
37	Pentane	PQN – 3733	Infrared	0-100%LEL
38	Toluene	PQN – 3835	Pellistor	0-100%LEL
39	Methyl Alcohol	PQN – 3935	Pellistor	0-100%LEL
40	Heptane	PQN – 4035	Pellistor	0-100%LEL
41	Octane	PQN – 4135	Pellistor	0-100%LEL
42	Ethyl Alcohol	PQN – 4235	Pellistor	0-100%LEL
43	Iso Propanol	PQN – 4335	Pellistor	0-100%LEL
44	Carbon monoxide	PQN – 4434	Electrochemical	0-300ppm
44	Carbon monoxide	PQN – 4434/B	Electrochemical	0-500ppm
44	Carbon monoxide	PQN – 4434/C	Electrochemical	0-1000ppm
44	Carbon monoxide	PQN – 4435	Pellistor	0-100%LEL
45	Acetone	PQN – 4535	Pellistor	0-100%LEL
46	Methyl Ethyl Ketone	PQN – 4635	Pellistor	0-100%LEL
47	Ethyl Acetate	PQN – 4735	Pellistor	0-100%LEL
48	Ammonia	PQN – 4834	Electrochemical	0-100ppm
48	Ammonia	PQN – 4834/B	Electrochemical	0-1000ppm
48	Ammonia	PQN – 4835	Pellistor	0-100%LEL
49	Ethylene	PQN – 4935	Pellistor	0-100%LEL
50	Acetic Acid	PQN – 5035	Pellistor	0-100%LEL
51	Butyl Acetate	PQN – 5135	Pellistor	0-100%LEL
52	Cyclo Hexane	PQN – 5235	Pellistor	0-100%LEL
53	Cyclo Pentane	PQN – 5335	Pellistor	0-100%LEL
54	Dioxane	PQN – 5435	Pellistor	0-100%LEL
55	Ethane	PQN – 5535	Pellistor	0-100%LEL
56	Butyl Alcohol	PQN – 5635	Pellistor	0-100%LEL
57	Styrene	PQN – 5735	Pellistor	0-100%LEL
58	Propylene	PQN – 5835	Pellistor	0-100%LEL

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XY	Gas	Product Code	Sensor Type	Measuring Range*
59	Xylene	PQN – 5935	Pellistor	0-100%LEL
60	Acetylene	PQN – 6035	Pellistor	0-100%LEL
61	Benzene	PQN – 6135	Pellistor	0-100%LEL
62	Ethylene Oxide	PQN – 6234	Electrochemical	0-20ppm
63	Vinyl Acetate	PQN – 6335	Pellistor	0-100%LEL
64	Hydrogen Sulfide	PQN – 6434	Electrochemical	0-100ppm
65	Oxygen	PQN – 6534	Electrochemical	0-25%VOL
66	Sulphur Dioxide	PQN – 6634	Electrochemical	0-10ppm
67	Nitric Oxide	PQN – 6734	Electrochemical	0-250ppm
68	Nitrogen Dioxide	PQN – 6834	Electrochemical	0-30ppm
69	Chlorine	PQN – 6934	Electrochemical	0-10ppm
70	Hydrocarbon	PQN – 7035	Pellistor	0-100%LEL
70	Hydrocarbon	PQN – 7033	Infrared	0-100%LEL
71	Carbon Dioxide	PQN – 7133	Infrared	0-5000ppm
71	Carbon Dioxide	PQN – 7133/B	Infrared	0-5%VOL
72	Freon	PQN – 7231	Semiconductor	0-2000ppm
73	JP8 Fuel	PQN – 7335	Pellistor	0-100%LEL
74	Formaldehyde	PQN – 7434	Electrochemical	0-10ppm
74	Formaldehyde	PQN – 7435	Pellistor	0-100%LEL
75	Hydrogen Cyanide	PQN – 7534	Electrochemical	0-25ppm
76	Hydrogen Peroxide	PQN – 7634	Electrochemical	0-300ppm
77	Nonane	PQN – 7735	Pellistor	0-100%LEL
78	Acetaldehyde	PQN – 7835	Pellistor	0-100%LEL
79	Hydrogen Chloride	PQN – 7934	Electrochemical	0-25ppm
81	VOC	PQN – 8136	PID	0-100/0-1000ppm
82	Ozone	PQN – 8234	Electrochemical	0-1ppm/0-5ppm
83	Hydrofluoric Acid (HF)	PQN – 8334	Electrochemical	0-10ppm
84	Phosphine	PQN – 8434	Electrochemical	0-10ppm
85	Isobutylene	PQN – 8535	Pellistor	0-100%LEL
86	Silane	PQN – 8634	Electrochemical	0-1ppm
87	Diborane	PQN – 8734	Electrochemical	0-1ppm
88	Arsine	PQN – 8834	Electrochemical	0-1ppm
89	Germane	PQN – 8934	Electrochemical	0-1ppm
90	Air Quality	PQN – 9031	Semiconductor	0-30ppm
91	A2L Refrigerant Gas	PQN – 9131	Semiconductor	0-10000ppm
92	Fluorine	PQN – 9234	Electrochemical	0-5ppm

** Please consult Prosense sales team for specific measuring ranges and other gases those are not listed here.*
For more information info@prosense.com.tr

Prosense gas detectors are fully tested and calibrated before delivery. Gas detectors must always be routinely controlled and calibrated regarding EN 60079-29-2.

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PQD Series Gas Detectors Datasheet

Trustworthy Certification
*PROSENSE "PQD" Series fixed gas detectors are certified with **ATEX/IECEx/ UKEX/INMETRO/ECASEx** and **UL/CSA**.*

Ex-proof Safety
The continuous measurement of toxic and explosive gases is done safely in hazardous areas thanks to the ex-proof housing.

Performance Approval
*It complies with the measurement performance criteria in accordance with the **IEC/EN 60079-29-1** standard.*

Functional Safety
*Prosense promotes SIL approved products to reduce safety risks associated with increasingly complicated systems as malfunctioning equipment could pose a potential risk. Prosense PQ Series is certified by TUV Rheinland as **SIL2/SIL3** functional safety level.*

Robust and Durable
SS316 stainless steel sensor head performs perfectly under harsh environmental conditions with the IP65/ IP66 protection class.

Accurate Readings
Pellistor, Electrochemical, PID, and Infrared sensors undoubtedly provide an accurate and sensitive measurement.

Ready to Operate
4-20mA Analog and Modbus RS485 RTU outputs are provided onboard to operate properly without any additional setup.

Easy Maintenance
*PQD Series detectors allow sensor replacement with pre-calibrated sensor head thanks to the **Procell** technology.*



OLED Display
The OLED screen can be easily read from any angle.

SAFELOG Data Logger
PQD Series records status up to 250 events. In case of sudden power cut, you can save the data thanks to the cell battery.

Automatic Calibration
Detector calibration can be done automatically via preset values recorded in detector software once calibration requirements are provided.

Pellistor-Saver Mode
Detector power off the sensor in high gas concentration in order to properly secure the operational lifetime of pellistor sensor.

Auto Analog Signal Calibration and Monitoring
PQD Series detectors continuously check the analog output signal level to match the measurement level before promptly transferred to the panel. PQD Series adjusts the signal level in case of any deviation and generates a fault signal when the adjustment fails.

Zero Suppression
Adjusting, the detector can show a certain measurement level as 0 (zero) to avoid unnecessary concerns.

Simple External Equipment Control
Optional relay module enables you to use it as an independent gas detection system with two arbitrarily adjustable concentration alarms and one fault alarm.

Continuous Self-Test
The detectors check itself continuously to make sure it operates perfectly and indicates a fault in case of any failure.

Adjustable Parameters
All parameters can be easily changed according to the application requirements or facility standards.

Remote Display
Depending on the application requirements, the screen can be placed separately.

Easy Status Recognition
Colored LEDs (green, yellow and red) provide additional alarm and status information.

Maintenance via Software
Prosense provides software to maintain your active system easily and calibrate the gas detectors properly via computer.

Applications
- *Oil&Gas*
- *Petrochemical*
- *Onshore/Offshore*
- *Steel-Metal Industry*
- *Chemical Industry*
- *Process Industry*
- *Gas Distribution Stations*
- *Water Treatment Plants*

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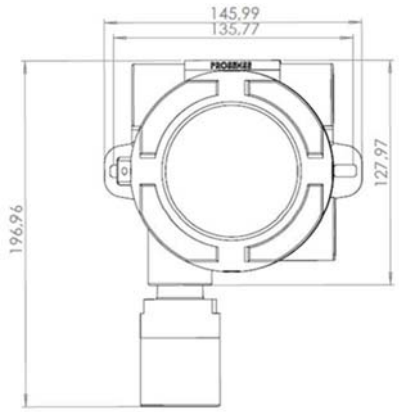
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PQD Series Gas Detectors Datasheet

Sensing Element	PQD-XY36: PID | PQD-XY35: Pellistor | PQD-XY34 :Electrochemical PQD-XY34 :Electrochemical | PQD-XY33: Infrared | PQD-XY31: Semi-Conductor
Output Signal	4-20mA Analog and RS485 Modbus RTU, Optional HART and Relay outputs
Sensor Warm-up Time	60sec
Response Time (T90)	<30sec*
Accuracy	%±1
Operating Temperature	-40°C ~ +70°C *
Humidity	0~ 100%RH * Non-Condensing
Input	Min 10VDC - Max 32VDC - Nominal 24VDC
Display	128x64 Graphic OLED `| 5 LED indicator for detector status
Event logging	Records alarm, fault and maintenance events up to 250 logs
Power Consumption	Max. 4W
Optional Relay Outputs	2 Alarm Relays (NO/NC adjustable) | 1 Fault Relay (NO) (Rating 1.25A 30VDC)
Cable Entry	1/2"NPT - 3/4"NPT - M20
IP Rating	IP65/IP66 | Optional IP66 (Sensor Head)
Junction Box	Epoxy Painted Die-Cast Aluminum / 316 Stainless Steel
Sensor Head	316L Stainless Steel
Dimensions/Weight	196,96x145,99x112mm / 2100gr
Marking	II 2 G Ex db IIC T6 Gb II 2 D Ex tb IIIC T85°C Db Class I, Division 1, Group A, B, C & D Class I, Zone 1, AEx db IIC T6 Gb, Ex db IIC T6 Gb, Zone 21, AEx tb IIIC T85°C Db and Ex tb IIIC T85°C Db
Hazardous Class	Zone 1 - Zone 2 - Zone 21-Zone 22
Certificates	UL Certificate: E521536 ATEX Certificate: UL 21 ATEX 2656X IECEx Certificate: IECEx ULD 21.0033X UKEX Certificate: UL22UKEX2376X Performance Certificate: FTZU 18 ATEX 0086 Functional Safety Certificate: TUV Rheinland- 968/FSP 2091.00/21
Standards	IEC EN 60079-0, UL 60079-0, CSA C22.2 No. 60079-0 IEC EN 60079-1, UL 60079-1, C22.2 No. 60079-1 IEC EN 60079-31, UL 60079-31, •CSA C22.2 No. 60079-31 IEC EN 60079-29-1 UL61010-1, CSA C22.2 No. 61010-1, UL 1203, CSA C22.2 No. 30

*Sensor dependent



Optional Modules

- **PQ-3R+:** 2 Alarms and 1 Fault (NO/NC adjustable) Relay Output Card
- **P-IP66:** 316L Stainless Steel Sensor Head Adaptor to increase IP rating
- **PQD-SS:** Stainless Steel Junction Box
- **P-GTA:** Gas Collection Cone
- **P-ASU:** Prosense Sampling Unit
- **PQ-DISP:** Remote Display
- **PQ-PD05:** PQ Series Hand Terminal
- **P-RSM:** Remote Sensor Module
- **PQ-HART:** HART Module
- **PY-PMK:** Pipe Mounting Kit
- **PY-SS:** Sun/Rain Shade

For more information please contact with info@prosense.com.tr

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XY	Gas	Product Code	Sensor Type	Measuring Range*
30	LPG	PQD – 3035	Pellistor	0-100%LEL
30	LPG	PQD – 3033	Infrared	0-100%LEL
31	Methane	PQD – 3135	Pellistor	0-100%LEL
31	Methane	PQD – 3133	Infrared	0-100%LEL
32	Petrol Vapours	PQD – 3235	Pellistor	0-100%LEL
32	Petrol Vapours	PQD – 3233	Infrared	0-100%LEL
33	n-Butane	PQD – 3335	Pellistor	0-100%LEL
33	n-Butane	PQD – 3333	Infrared	0-100%LEL
34	Propane	PQD – 3435	Pellistor	0-100%LEL
34	Propane	PQD – 3433	Infrared	0-100%LEL
35	Hexane	PQD – 3535	Pellistor	0-100%LEL
35	Hexane	PQD – 3533	Infrared	0-100%LEL
36	Hydrogen	PQD – 3635	Pellistor	0-100%LEL
37	Pentane	PQD – 3735	Pellistor	0-100%LEL
37	Pentane	PQD – 3733	Infrared	0-100%LEL
38	Toluene	PQD – 3835	Pellistor	0-100%LEL
39	Methyl Alcohol	PQD – 3935	Pellistor	0-100%LEL
40	Heptane	PQD – 4035	Pellistor	0-100%LEL
41	Octane	PQD – 4135	Pellistor	0-100%LEL
42	Ethyl Alcohol	PQD – 4235	Pellistor	0-100%LEL
43	Iso Propanol	PQD – 4335	Pellistor	0-100%LEL
44	Carbon monoxide	PQD – 4434	Electrochemical	0-300ppm
44	Carbon monoxide	PQD – 4434/B	Electrochemical	0-500ppm
44	Carbon monoxide	PQD – 4434/C	Electrochemical	0-1000ppm
44	Carbon monoxide	PQD – 4435	Pellistor	0-100%LEL
45	Acetone	PQD – 4535	Pellistor	0-100%LEL
46	Methyl Ethyl Ketone	PQD – 4635	Pellistor	0-100%LEL
47	Ethyl Acetate	PQD – 4735	Pellistor	0-100%LEL
48	Ammonia	PQD – 4834	Electrochemical	0-100ppm
48	Ammonia	PQD – 4834/B	Electrochemical	0-1000ppm
48	Ammonia	PQD – 4835	Pellistor	0-100%LEL
49	Ethylene	PQD – 4935	Pellistor	0-100%LEL
50	Acetic Acid	PQD – 5035	Pellistor	0-100%LEL
51	Butyl Acetate	PQD – 5135	Pellistor	0-100%LEL
52	Cyclo Hexane	PQD – 5235	Pellistor	0-100%LEL
53	Cyclo Pentane	PQD – 5335	Pellistor	0-100%LEL
54	Dioxane	PQD – 5435	Pellistor	0-100%LEL
55	Ethane	PQD – 5535	Pellistor	0-100%LEL
56	Butyl Alcohol	PQD – 5635	Pellistor	0-100%LEL
57	Styrene	PQD – 5735	Pellistor	0-100%LEL
58	Propylene	PQD – 5835	Pellistor	0-100%LEL

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XY	Gas	Product Code	Sensor Type	Measuring Range*
59	Xylene	PQD – 5935	Pellistor	0-100%LEL
60	Acetylene	PQD – 6035	Pellistor	0-100%LEL
61	Benzene	PQD – 6135	Pellistor	0-100%LEL
62	Ethylene Oxide	PQD – 6234	Electrochemical	0-20ppm
63	Vinyl Acetate	PQD – 6335	Pellistor	0-100%LEL
64	Hydrogen Sulfide	PQD – 6434	Electrochemical	0-100ppm
65	Oxygen	PQD – 6534	Electrochemical	0-25%VOL
66	Sulphur Dioxide	PQD – 6634	Electrochemical	0-10ppm
67	Nitric Oxide	PQD – 6734	Electrochemical	0-250ppm
68	Nitrogen Dioxide	PQD – 6834	Electrochemical	0-30ppm
69	Chlorine	PQD – 6934	Electrochemical	0-10ppm
70	Hydrocarbon	PQD – 7035	Pellistor	0-100%LEL
70	Hydrocarbon	PQD – 7033	Infrared	0-100%LEL
71	Carbon Dioxide	PQD – 7133	Infrared	0-5000ppm
71	Carbon Dioxide	PQD – 7133/B	Infrared	0-5%VOL
72	Freon	PQD – 7231	Semiconductor	0-2000ppm
73	JP8 Fuel	PQD – 7335	Pellistor	0-100%LEL
74	Formaldehyde	PQD – 7434	Electrochemical	0-10ppm
74	Formaldehyde	PQD – 7435	Pellistor	0-100%LEL
75	Hydrogen Cyanide	PQD – 7534	Electrochemical	0-25ppm
76	Hydrogen Peroxide	PQD – 7634	Electrochemical	0-300ppm
77	Nonane	PQD – 7735	Pellistor	0-100%LEL
78	Acetaldehyde	PQD – 7835	Pellistor	0-100%LEL
79	Hydrogen Chloride	PQD – 7934	Electrochemical	0-25ppm
81	VOC	PQD – 8136	PID	0-100/0-1000ppm
82	Ozone	PQD – 8234	Electrochemical	0-1ppm/0-5ppm
83	Hydrofluoric Acid (HF)	PQD – 8334	Electrochemical	0-10ppm
84	Phosphine	PQD – 8434	Electrochemical	0-10ppm
85	Isobutylene	PQD – 8535	Pellistor	0-100%LEL
86	Silane	PQD – 8634	Electrochemical	0-1ppm
87	Diborane	PQD – 8734	Electrochemical	0-1ppm
88	Arsine	PQD – 8834	Electrochemical	0-1ppm
89	Germane	PQD – 8934	Electrochemical	0-1ppm
90	Air Quality	PQD – 9031	Semiconductor	0-30ppm
91	A2L Refrigerant Gas	PQD – 9131	Semiconductor	0-10000ppm
92	Fluorine	PQD – 9234	Electrochemical	0-5ppm

** Please consult Prosense sales team for specific measuring ranges and other gases those are not listed here.*
For more information info@prosense.com.tr

Prosense gas detectors are fully tested and calibrated before delivery. Gas detectors must always be routinely controlled and calibrated regarding EN 60079-29-2.

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S-DP X Panels Datasheet

Analog&Digital Communication

DPX supports both 4-20mA and Modbus communications and can be integrated to external control and monitoring systems.

Cloud Monitoring

Cloud based data acquisition provides real-time monitoring of system status using ethernet or wireless connection options.

Intelligent System

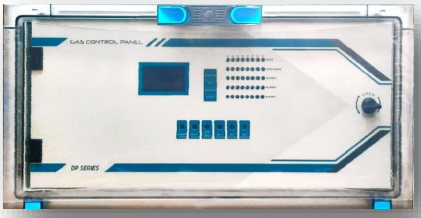
Smart system software automatically identify the detectors and allows the settings adjustment from controller's menu.

Digital Zones

Up to 8 digital zones creation and detectors agroupment available for suiting the site conditions.

Analogue Module

Any 4-20mA analogue detector can be integrated to MODBUS chain with optional analogue module.



Optional Modules

- **S-NET:** Ethernet interface board
- **S-KEY:** Panel cover lock
- **PS120:** 24V 5A Uninterruptible Power Supply

Specifications	Details
Inputs	DP4: 4 x 4-20mA Analogue Channels DP8: 8 x 4-20mA Analogue Channels DP32: 32 x RS485 MODBUS RTU Detectors + 8 x 4-20mA Analogue Channels DP64: 64 x RS485 MODBUS RTU Detectors + 8 x 4-20mA Analogue Channels DP128: 128 x RS485 MODBUS RTU Detectors + 8 x 4-20mA Analogue Channels
Monitoring	Simultaneously monitoring measurement levels, alarm and fault status
Relay Outputs	Programmable FAULT, ALARM1, ALARM2, ALARM3, OVERRANGE (optional programmable relay) Adjustable NO/NC contacts
Data Logging	Storages Alarm, Fault and maintenance logs up to 500 events
Display	Graphic OLED 128x64
LED Indicators	FAULT, ALARM1, ALARM2, ALARM3, OVERRANGE status LEDs for each zone (40 LEDs) Power/On, FAULT, ALARM1, ALARM2, ALARM3, SYS-FAULT LEDs for overall monitoring
Buzzer	YES
Programming	User friendly software enables easy programming with 4 buttons on panel door
Remote Monitoring	Cloud data connection for remote monitoring
Power Supply	220 VAC / 110VAC
Main Power Fuse	2A
Power Consumption	27VDC/250mA-8W max. (without connected detectors)
Backup Battery	2x12V 7A/h (Optional)
Backup Battery Fuse	2A
Ingress Protection	IP66
Humidity	10-95%RH Non-Condensing
Operating Temp.	-20 ℉ to + 60 ℃
Cable Gland	PG11, IP66
Panel Material	PC (Polycarbonate), Halogen-free, Silicon-free, Durable 960' Hot Wire Experiment, Resistant to UV Rays
Dimensions/Weight	DP4 : 366x276x186mm / 4.25 KG DP8, DP32, DP64, DP128: 546x276x186mm / 6 KG
Mounting	Modular Structure

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