

Trustworthy Certification

PROSENSE "PQD" Series fixed gas detectors are certified with ATEX/IECEX and SIL2.

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. PQ series has ongoing process for SIL-2.

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

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

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

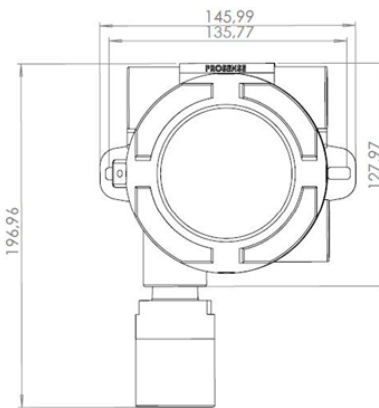
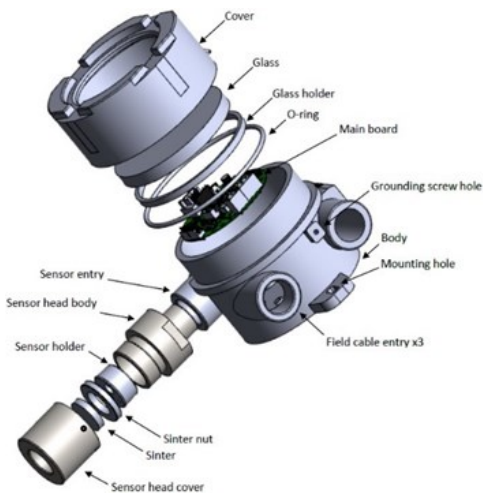
- Oil&Gas
- Petrochemical
- Onshore/Offshore
- Steel-Metal Industry
- Chemical Industry
- Process Industry
- Gas Distribution Stations
- Water Treatment Plants

PQD Series Gas Detectors Datasheet

Specifications	PQD-XY36	PQD-XY35	PQD-XY34	PQD-XY33	PQD-XY31
Sensing Element	PID	Pellistor	Electrochemical	Infrared	Semi-Conductor
Output Signal	4-20mA Analog and RS485 Modbus RTU				
Sensor Warm-up Time	60sec				
Response Time (T90)	<30sec*	<25sec	<30sec**	<30sec	<15sec
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 Alarms (Programmable) and 1 Fault (All relays are NO/NC adjustable)				
Cable Entry	1/2"NPT - 3/4"NPT - 3xM20				
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				
ATEX Marking	II 2G Ex db IIC T6 Gb II 2G Ex mb db IIC T6 Gb IM2 Ex db IMb				
Hazardous Class	Zone 1 - Zone 2 - M2				
Certificates	•ExVeritas 18 ATEX 0371X •IECEx EXV 18.0021X •FTZU 18 ATEX 0086 •IEP12 ATEX 6118X •SIL2 (Pending)				
Standards	• IEC EN 60079-0 • IEC EN 60079-1 • IEC EN 60079-18 • IEC EN 60079-29-1				

*When set to continuous measurement.

**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:** Ceiling mount collecting
- **P-ASU:** Prosense sampling unit
- **PQ-DISP:** Remote Display
- **PQ-PD05:** PQ Series Hand Terminal

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

PQD Series Gas Detectors Datasheet

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

PQD Series Gas Detectors Datasheet

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	*
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	*
82	Ozone	PQD – 8234	Electrochemical	*
83	Hydrofluoric Acid (HF)	PQD – 8334	Electrochemical	*
84	Phosphine	PQD – 8434	Electrochemical	0-10ppm
85	Isobutylene	PQD – 8535	Pellistor	0-100%LEL

* 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.

Trustworthy Certification

PROSENSE "PQN" Series fixed gas detectors are certified with ATEX/IECEX and SIL2.

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. PQN series has ongoing process for SIL-2.

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 if it operates perfectly or not 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

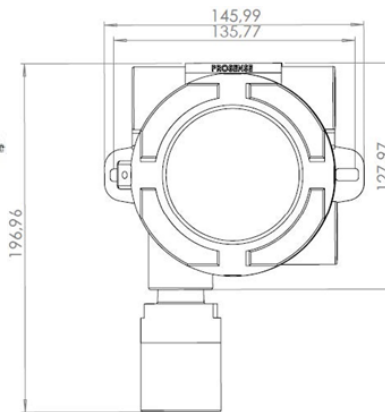
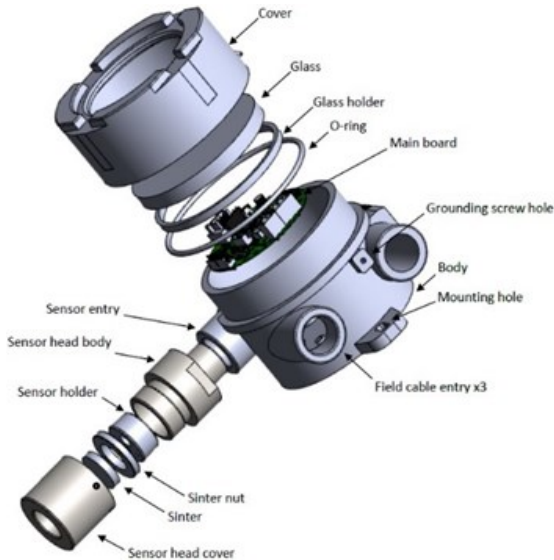
- Process Industry
- Water Treatment
- Chemical Industry
- Food and Medicine Facilities
- Metal Industry
- Gas Distribution Stations
- Laboratories

PQN Series Gas Detectors Datasheet

Specifications	PQN-XY36	PQN-XY35	PQN-XY34	PQN-XY33	PQN-XY31
Sensing Element	PID	Pellistor	Electrochemical	Infrared	Semi-Conductor
Output Signal	4-20mA Analog and Modbus RS485 RTU				
Sensor Warm-up Time	60sec				
Response Time (T90)	<30sec*	<25sec	<30sec**	<30sec	<15sec
Accuracy	%±2				
Operating Temperature	-40°C ~ +70°C **				
Humidity	0~100%RH **				
Input	Min 10VDC - Max 32VDC - Nominal 24VDC				
Event logging	Records alarm, fault and maintenance events up to 250 logs				
Power Consumption	Max. 4W				
Optional Relay Outputs	2 Alarms (Programmable) and 1 Fault (All relays are NO/NC adjustable)				
Cable Entry	3x 1/2"NPT Standard / 3x 3/4"NPT / 3xM20				
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				
ATEX Marking	II 2G Ex db IIC T6 Gb II 2G Ex mb db IIC T6 Gb IM2 Ex db IMb				
Hazardous Class	Zone 1 - Zone 2 - M2				
Certificates	•ExVeritas 18 ATEX 0371X •IECEx EXV 18.0021X •FTZU 18 ATEX 0086 •IEP12 ATEX 6118X •SIL2 (Pending)				
Standards	•IEC EN 60079-0 •IEC EN 60079-1 •IEC EN 60079-18 •IEC EN 60079-29-1				

*When set to continuous measurement.

**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:** Ceiling mount collecting
- **P-ASU:** Prosense sampling unit
- **PQ-DISP:** Remote Display
- **PQ-PD05:** PQ Series Hand Terminal

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

PQN Series Gas Detectors Datasheet

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

PQN Series Gas Detectors Datasheet

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	*
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	*
82	Ozone	PQN – 8234	Electrochemical	*
83	Hydrofluoric Acid(HF)	PQN – 8334	Electrochemical	*
84	Phosphine	PQN – 8434	Electrochemical	0-10ppm
85	Isobutylene	PQN – 8535	Pellistor	0-100%LEL

* 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.

Detection of VOC Gases

PID technology is the latest generation of fixed photoionization detectors that continuously detect a wide range of volatile organic compound (VOC).

Trustworthy Certification

PROSENSE "PQ" Series fixed gas detectors are certified with ATEX/IECEX and SIL2.

Ex-proof Safety

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

Functional Safety

Prosense promotes SIL approved products to reduce safety risks associated with increasingly complicated systems as malfunctioning equipment could pose a potential risk. PQ series has ongoing process for SIL-2.

Robust and Durable

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

SAFELOG Data Logger

PQ series records status up to 250 events. In case of sudden power cut, you can save the data thanks to the cell battery.

Ready to Operate

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

Easy Maintenance

PQ 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 supplied.

Auto Analogue Signal Calibration and Monitoring

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

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 if it operates perfectly or not and indicates a fault in case of any failure.

Optional OLED Display

The OLED screen can be easily read from any angle.

Adjustable Parameters

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

Easy Status Recognition

Colored LEDs (green, yellow and red) provide additional alarm and status information with OLED display.

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, the screen can be placed separately.

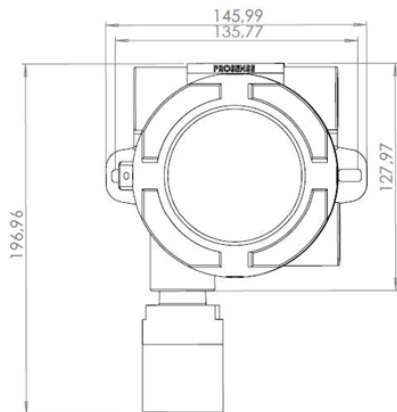
Applications

- Oil&Gas
- Onshore/Offshore
- Process Industry
- Chemical Industry
- Food and Medicine Facilities
- Metal Industry
- Gas Distribution Stations
- Laboratories

Specifications	PQD - 8136	PQN - 8136
Sensing Element	PID	
Measuring Range	ppm/ppb	
Output Signal	4-20mA Analog and Modbus RS485 RTU	
Sensor Warm-up Time	60sec	
Response Time (T90)	<30sec*	
Accuracy	%±1	
Operating Temperature	-40°C ~ +70°C	
Humidity	0~95%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 Alarms (Programmable) and 1 Fault (All relays are NO/NC adjustable)	
Cable Entry	1/2"NPT - 3/4"NPT - 3xM20	
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	
ATEX Marking	II 2G Ex db IIC T6 Gb II 2G Ex mb db IIC T6 Gb I M2 Ex db I Mb	
Hazardous Class	Zone 1 - Zone 2 - M2	
Certificates	•ExVeritas 18 ATEX 0371X •IECEX EXV 18.0021X •FTZU 18 ATEX 0086 •IEIP12 ATEX 6118X •SIL2**	
Standards	• IEC EN 60079-0 • IEC EN 60079-1 • IEC EN 60079-18	

*When set to continuous measurement.

**Pending.



Optional Modules

- **PQ-3R+**: 2 Alarm, 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 with display
- **PQN-SS**: Stainless steel junction box without display
- **P-GTA**: Ceiling mount collecting
- **P-ASU**: Prosense sampling unit
- **PQ-DISP**: Remote display
- **PQ-PD05**: PQ Series Hand Terminal

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

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.

Fall-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 if it operates perfectly or not and indicates a fault in case of any failure.

Maintenance via Software

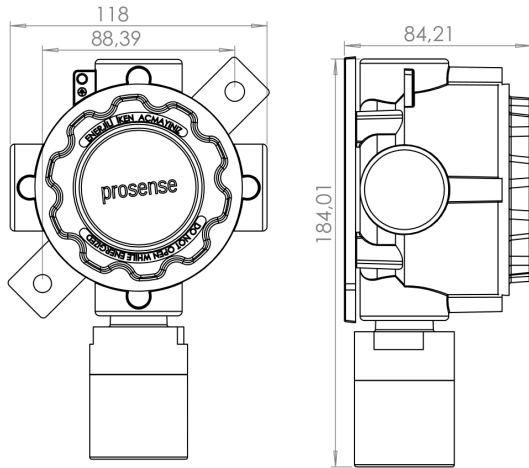
Prosense provides software to maintain your active system easily and calibrate the gas detectors properly via computer.

Applications

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

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 Alarms (Selectable) and 1 Fault (All relays are NO/NC adjustable)			
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			

*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

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

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

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

* 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.

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

Fall-Safe Technology Alarming

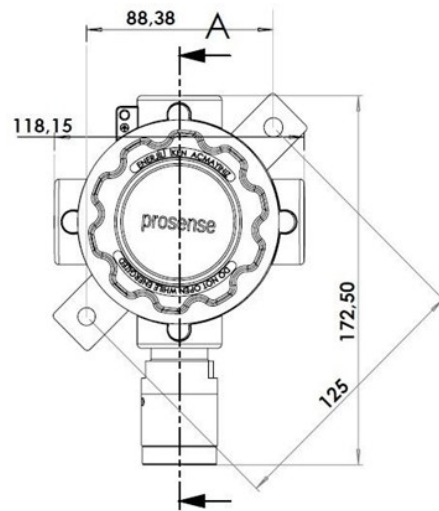
Optional relay module is suitable to use as Alarm1 and Fault. Additionally, it can be arranged as Alarm1 and Alarm2.

Applications

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

Optional Modules

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



PE Series Gas Detectors Datasheet

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.

Combination of Gas and Shock Impact Detectors

PE-KAYO Series specially designed for the Oil&Gas stations as it has multiple functions. The detector has a special accelerometer chip inside to monitor physical bumps happening on the location where the device installed along with gas measurement functions. It can generate an alarm to cut the gas and oil flow if car or truck hits the detector or the mounted shaft.

Trustworthy Certification

PROSENSE "PE-KAYO" 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-KAYO" Series offers cost-effective solutions in Oil&Gas industry.

Robust and Durable

"PE-KAYO" performs perfectly under the harsh environmental conditions with the IP65 protection class.

Accurate Readings

Long-lasting Catalytic sensors undoubtedly provide an accurate and sensitive gas detection.

Universal Outputs

4-20mA Analog, Modbus RS485 RTU, Relay and Voltage outputs are simple to operate efficiently and universally.

Quick Response Time

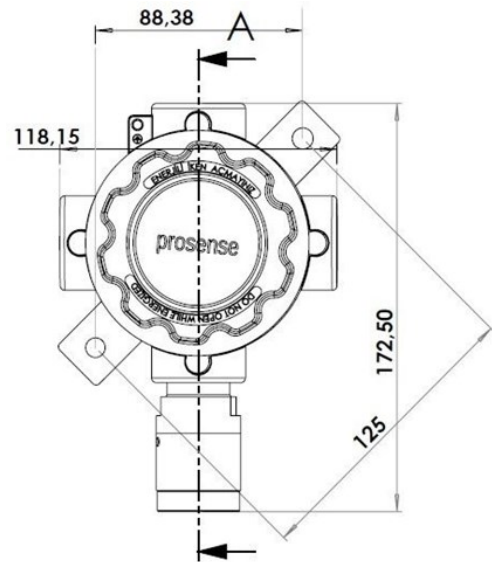
Catalytic sensor in PE-KAYO offers quick response time for detecting combustible gases.

Durable Sensor

PE-KAYO Series uses a special Catalytic sensor which has a long life-time.

Fall-Safe Technology Alarming

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



Applications

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

Optional Modules

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

PE-KAYO Series Gas&Impact Detectors Datasheet

Specifications	P-XY12PEK
Sensing Element	Catalytic
Motion Sensor	3 axis (3D accelerometer)
Output Signal	4-20mA Analog Modbus RS485 RTU
Sensor Warm-up Time	60sec
Response Time (T90)	<15sec
Accuracy	%±1
Operating Temperature	-40°C ~ +70°C
Humidity	5 ~ 95%RH Non-Condensing
Input	Min 10VDC - Max 32VDC - Nominal 24VDC
Power Consumption	Max.4W
Optional Relay Outputs	2 Alarms (Selectable) and 1 Fault (All relays are NO/NC adjustable)
Cable Entry	1/2"NPT
IP Rating	IP65
Junction Box	Epoxy Painted Die-Cast Aluminium
Sensor Head	Nickel-Plated Brass
Dimensions/Weight	172,5x118,15x88mm / 1150gr
ATEX Marking	II 2G Ex db IIC T5 Gb
Hazardous Class	Zone 1 - Zone 2
Certificates	•IMQ 19 ATEX 045 X •IECEx IMQ 18.0009X
Standards	•IEC EN 60079-0 •IEC EN 60079-1

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

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.

Fall-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

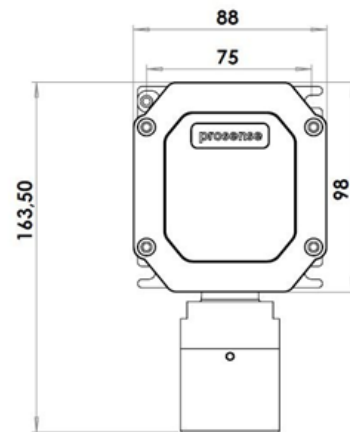
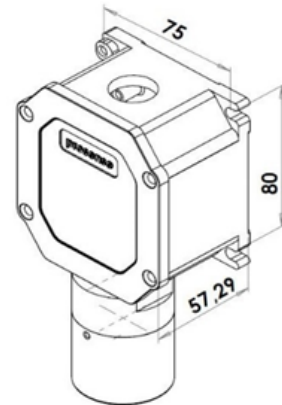
4-20mA Analog, Modbus RS485 RTU, and relay outputs are simple to operate efficiently and they are universally usable in any control panel.

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.



PC3 Series Gas Detectors Datasheet

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
*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

Cost-Effective Solutions

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

Affordable Solution for Freon

This series is a price-performance product for freon gas.

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.

Fall-Safe Technology Alarming

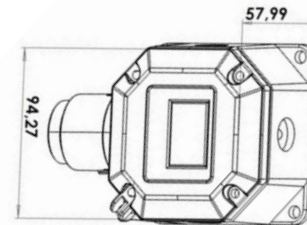
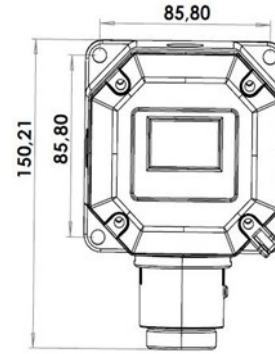
Alarm 1 and Alarm 2 relays are easy to set to default LEL, ppm, VOL levels. The fault relay output properly indicates fault status.

Applications

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

Optional Modules

- **BTN-RS:** Modbus RS485 RTU interface module



BTN Series Gas Detectors Datasheet

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

*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

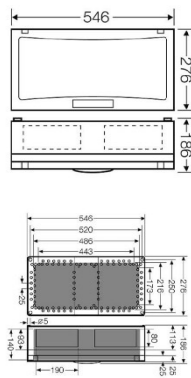
S-DP4 / S-DP8 / S-DP32 Panels Datasheet



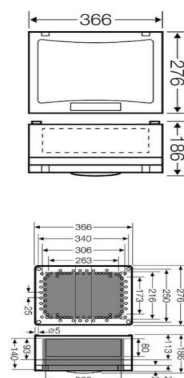
Specifications	S-DP4 Gas Control Panel	S-DP8 Gas Control Panel	S-DP32 Gas Control Panel
Input	4 x Analogue 4-20mA 1 Digital Input	8 x Analogue 4-20mA 1 Digital Input	1 Serial Input to communicate up to 32 detectors 1 Digital Input
Monitoring	Simultaneously monitoring measurements, alarm and fault status		
Relay Outputs	Programmable Fault, Alarm1, Alarm2, AUX contacts Adjustable NO/NC contacts Optional Alarm1, Alarm2 and fault relays for each detector		Programmable Fault, Alarm1, Alarm2, AUX contacts Adjustable NO/NC contacts Optional Alarm1, relay for each detector
Data Logging*	Storages Alarm, Fault and maintenance logs up to 24 event		
Display	Graphic LCD 128x64		
LED Indicators	6 LED indicators for Alarm1, Alarm2, Fault, AUX, Battery and Power LED indicators		
Buzzer	YES		
Programming	User friendly software enables easy programming with 4 buttons on panel door		
Software Monitoring	Up to 16 panels can be monitored via Prosense Gas Monitoring software remotely		—
Power Supply	220 VAC +/-10% - 110VAC +/-10%		
Main Power Fuse	2A		
Power Consumption	27VDC/250mA-4,5W max. without connected detectors		27VDC/250mA-8,4W 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 °C		
Cable Gland	PG11, IP66		
Panel Material	PC (Polycarbonate), Halogen-free, Silicon-free, Durable 960' Hot Wire Experiment, Resistant to UV Rays		
Dimensions/Weight	366x276x186mm / 4.25 KG	546x276x186mm / 5.75 KG	546x276x186mm / 6 KG
Mounting	Modular Structure		

*This features is unable for S-DP4 and S-DP8 when monitoring via software.

S-DP4 Dimensions



S-DP8/DP32 Dimensions



Optional Modules

- **S-4R:** 4 relay output card (Only for S-DP4 and Max. 3 qty)
- **S-8R:** 8 relay output card (Only for S-DP8(Max. 3 qty) and S-DP32 (Max. 4 qty))
- **S-RS:** Modbus RS485 RTU Interface Module (Only for S-DP4 and S-DP8)
- **S-KEY:** Panel cover lock
- **PS120:** 24V 5A Uninterruptible Power Supply
- **PA-1207:** No Maintenance Required 12V 7A Battery

Certified with EN 50545-1

PPS+ is the first system which acquired the certification of EN 50545-1, the standard for car parks.

Specially Designed for Carparks

Prosense PPS+ addressable gas detectors are designed and developed for continuously monitoring carbon monoxide for vehicles with gasoline and nitrogen dioxide for vehicles with diesel in closed car parks and tunnels.

Easy Communication

PPS+ Series gas detectors are managed by PPS Manager Control Panel via Modbus RS485 RTU serial connection.

Increasable Number of Zones

PPS Manager control panel has up to four zones and each zone capable to manage up to 32 detectors.

Different Gases In Same Zone

The detectors for different gases can be integrated into same zone and can be monitored separately. Totally, 128 detectors can be managed by PPS Manager.

Suitable Solution for Ventilation System

PPS Manager has three relay outputs for each zone in order to manage fan ventilation levels. Also, 1 Alarm and 1 Fault relay contacts are integrated into the panel to monitor overall status.

Visual Indicators

Four individual LEDs in each zone inform the operator about current status as an addition to the panel display.

Power Cut Protection

PPS Control Manager offers optional battery connections in case of power cut.

Management System Integration Output

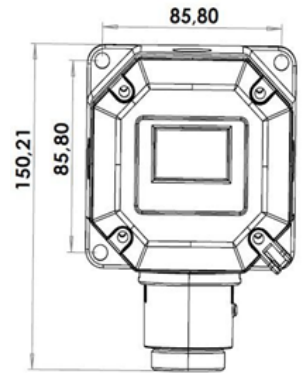
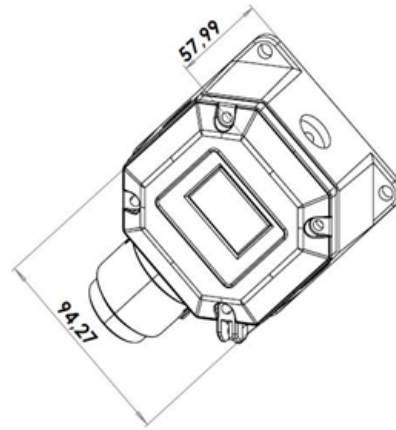
PPS Manager provides Modbus RS 485 RTU output that can be integrated with SCADA, DCS or BMS systems

Automatic Recognition of Detectors

PPS monitoring system automatically detects the type of detector and adjusts the related measurement ranges and alarm levels.

Monitoring Options

You can select an average or maximum value for every single zone and monitor that value.



Single Detector Monitoring

Monitoring every single detector in every single zone is possible with PPS Manager.

Optional Modules

- **PA-1207:** No Maintenance Required 12V 7A Battery
- **RS485:** Modbus RS485 RTU Interface Module
- **PPS-RS:** Zone-expand module to increase the number of zones

Specifications	PPS-CO	PPS-NO2
Target Gas	Carbon Monoxide	Nitrogen Dioxide
Sensor Type	Electrochemical	
Output Signal	Modbus RS485 RTU	
Sensor Warm-Up	60sec	
Response Time	<30sec	
Measuring Range	0-300ppm	0-30ppm
Accuracy	%±1	
Operating Temperature	-20°C ~ +50°C	
Humidity	5~95%RH	
Input Voltage	Min 10VDC - Max 18VDC - Nominal 12VDC	
Power Consumption	Max.2W	
Cable Entry	PG11	
Junction Box	ABS Plastic / IP54	
Dimensions	150x94,5x58mm	
Weight	250gr	
Standards	EN 50545-1:2015 EN 50270	

Specifications	PPS Manager
Power Source	220VAC +/-10% - 50 Hz/110VAC +/-10%
Power Consumption	27VDC/200mA-5.4Wmax. without connected detectors
Input (Internal)	4 x 32 Detectors via Modbus RS485 RTU Serial Input
Relay Outputs	Fan1, Fan2 and Fault for Each Zone Fault and Alarm for Overall Status
Contacts Rating	3A, 24VDC or 2A 120VAC
Display	Graphic LCD (2x8)
LED Indicators	Zone Status: Power, Fault, Alarm1, Fan1, Fan2 General Status: Power/ON, Fault
Buzzer	Yes
Backup Battery	2x12V 7A/h (Optional)
Operating Temp.	-20 to +50°C
Humidity	5-95%RH Non-Condensing
Housing	ABS Plastic / IP66
Dimensions	366x276x186mm
Weight	5.5kg
Main Power Fuse	2A
Backup Battery Fuse	2A
• Max. cable length should not exceed 800m in each zone due to the Modbus limit.	

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

Specially Designed for Carparks

Prosense PPS addressable gas detectors are designed and developed for continuously monitoring carbon monoxide for vehicles with gasoline, nitrogen dioxide for vehicles with diesel and LPG gases for vehicle with LPG in closed carparks and tunnels.

Easy Communication

PPS Series gas detectors are managed by PPS Manager Control Panel via Modbus RS485 RTU serial connection.

Increasable Number of Zones

PPS Manager Control Panel has up to four zones and each zone capable to manage up to 32 detectors.

Different Gases In Same Zone

The detectors for different gases can be integrated into same zone and can be monitored separately. Totally, 128 detectors can be managed by PPS Manager.

Suitable Solution for Ventilation System

PPS Manager has three relay outputs for each zone in order to manage fan ventilation levels. Also, 1 Alarm and 1 Fault relay contacts are integrated into the panel to monitor overall status.

Visual Indicators

Four individual LEDs in each zone inform the operator about current status as an addition to the panel display.

Power-Cut Protection

PPS Control Manager offers optional battery connections in case of power cut.

Management System Integration Output

PPS Manager provides Modbus RS 485 RTU output that can be integrated with SCADA, DCS or BMS systems.

Automatic Recognition of Detectors

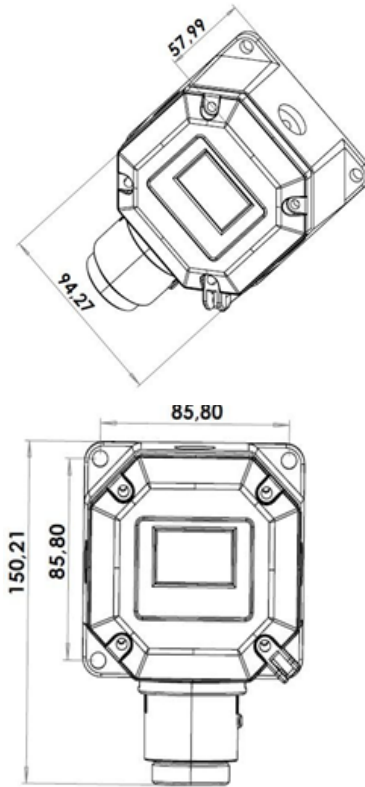
PPS monitoring system automatically detects the type of detectors and adjusts the related measurement ranges and alarm levels.

Monitoring Options

You can select an average or an maximum value for every single zone and monitor that value.

Single Detector Monitoring

Monitoring every single detector in every single zone is possible with PPS Manager.



Optional Modules

- **PA-1207:** No Maintenance Required 12V 7A Battery
- **RS485:** Modbus RS485 RTU Interface Module
- **PPS-RS:** Zone-expand module to increase the number of zones.

Specifications	PPS-CO	PPS-NO2	PPS-LPG
Target Gas	Carbon Monoxide	Nitrogen Dioxide	LPG
Sensor Type	Electrochemical		Catalytic
Output Signal	Modbus RS485 RTU		
Sensor Warm-Up	60sec		
Response Time	<30sec	<30sec	<15sec
Measuring Range	0-300ppm	0-30ppm	0-100%LEL
Accuracy	%±2		
Operating Temperature	-20°C ~ +50°C		
Humidity	5~95%RH		
Input Voltage	Min 10VDC - Max 18VDC - Nominal 12VDC		Min 10VDC - Max 28VDC Nominal 24VDC
Power Consumption	Max.2W		
Cable Entry	PG11		
Junction Box	ABS Plastic / IP54		
Dimensions	150x94,5x58mm		
Weight	250gr		
Standards	EN 50270		

Specifications	PPS Manager
Power Source	220VAC +/-10% - 50 Hz/110VAC +/-10%
Power Consumption	27VDC/200mA-5.4Wmax. without connected detectors
Input (Internal)	4 x 32 detectors via Modbus RS485 RTU serial input
Relay Outputs	Fan1, Fan2 and Fault for each zone Fault and Alarm for overall status
Contacts Rating	3A, 24VDC or 3A 120VAC
Display	Graphic LCD (2x8)
LED Indicators	Zone Status: Power, Fault, Alarm1, Fan1, Fan2 General Status: Power/ON, Fault
Buzzer	Yes
Backup Battery	2x12V 7A/h (Optional)
Operating Temp.	-20 to +50°C
Humidity	5-95%RH non-condensing
Housing	Polycarbonate / IP66
Dimensions	366x276x186mm
Weight	5.5kg
Main Power Fuse	2A
Backup Battery Fuse	2A
• Max. cable length should not exceed 800m in each zone due to the Modbus limit.	

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

Specially Designed for Carparks

Prosense PPS RCO & RNO₂ gas detectors are designed and developed for continuously monitoring carbon monoxide for vehicles with gasoline and nitrogen dioxide for vehicles with diesel in closed car parks and tunnels.

Cost-Effective Solutions

"PPS RCO & RNO₂" Series offers cost-effective solutions for carparks.

Light Housing

PPS RCO & RNO₂ with ABS plastic and IP54 protected housing is designed for indoor applications.

Relay Contacts

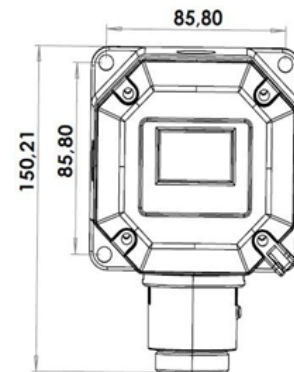
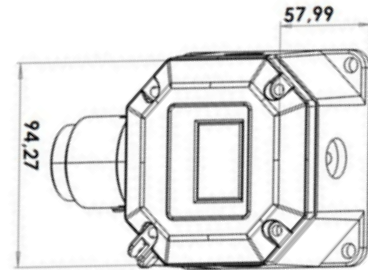
On board provided relay contacts allow to manage other equipment such as siren, flasher. Also, it can be linked to firefighting panels.

Sensitive Sensors

High quality Electrochemical sensor in PPS RCO & RNO₂ Series detectors shows excellent results in ppm.

Suitable Solullon for Ventilation System

PPS RCO and RNO₂ has 2 relay outputs in order to manage fan ventilation levels. Also, 1 Alarm and 1 Fault relay contacts are integrated into the panel to monitor overall status.



PPS RCO & RNO₂ Series Gas Detectors Datasheet

Specifications	PPS-RCO	PPS-RNO2
Target Gas	Carbon Monoxide	Nitrogen Dioxide
Sensor Type	Electrochemical	
Output Signal	2 Alarms and 1 Fault	
Sensor Warm-Up	60sec	
Response Time	<30sec	
Measuring Range	0-300ppm	0-30ppm
Accuracy	%±2	
Operating Temperature	-20°C ~ +50°C	
Humidity	5~95%RH	
Input Voltage	Min 10VDC - Max 28VDC - Nominal 24VDC	
Power Consumption	Max.2W	
Cable Entry	PG11	
Junction Box	ABS Plastic / IP54	
Dimensions	150x94,5x58mm	
Weight	250gr	

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