

Trustworthy Certification

PROSENSE PXSeries fixed gas detectors are certified according to **UL, CSA, ATEX, IECEx, UKEX, INMETRO** standards.

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/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

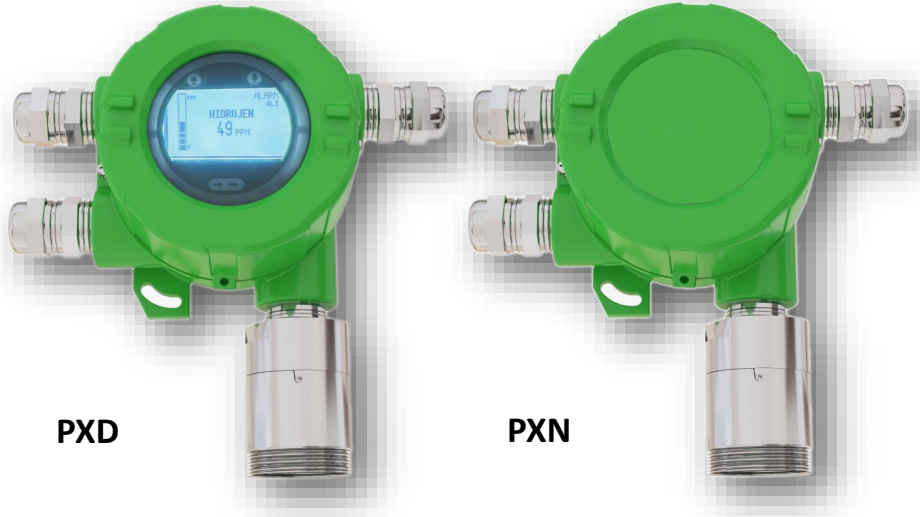
PX Series detectors allow sensor replacement with pre-calibrated sensor head thanks to the Procell technology.

LCD Display

The LCD display provides 128x64 screen to show measurement and menu access to adjust parameters on PXD models.

Auto Analog Signal Calibration and Monitoring

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



PXD

PXN

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.

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.

PXD—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

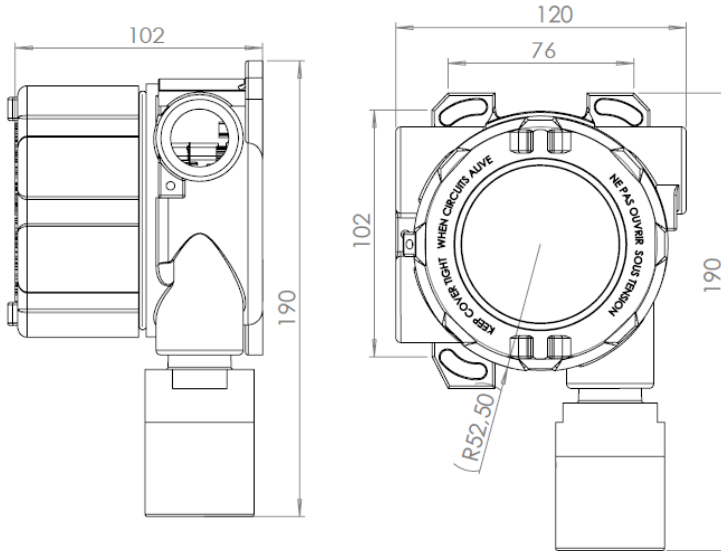
- Oil&Gas
- Petrochemical
- Onshore/Offshore
- Steel-Metal Industry
- Chemical Industry
- Process Industry
- Gas Distribution Stations
- Water Treatment Plants

PX Series Gas Detector Datasheet

Specifications	PX(D/N)-XY36	PX(D/N)-XY35	PX(D/N)-XY34	PX(D/N)-XY33	PX(D/N)-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 12VDC - Max 28VDC - Nominal 24VDC				
Display (PXD)	128x64 Graphic TFT 4 LED indicator for detector status				
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 - 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	190mm x 120mm x 102mm / 1750 gram				
Ex Marking	Class I/II, Div. 1/2, Groups A, B, C & D, Groups E, F & G (T6/T5) Class I, Zone 1/2 AEx d IIC (T6/T5) II 2 GD Ex db IIC T6 Gb Ex tb IIIC T85°C Db -40°C ≤ Ta ≤ +70°C				
Hazardous Class	Div. 1/2, Zone 1/21 - Zone 2 /22				
Certificates	UL 22 ATEX 2729X - UL22UKEX2376X - IECEx ULD 22.0010X - E521536				
Standards	• IEC EN 60079-0 • IEC EN 60079-1 • IEC EN 60079-31				

*When set to continuous measurement.

**Sensor dependent.



Optional Modules

- **PX-3R+:** 2 Alarms and 1 Fault (NO/NC adjustable) relay output card
- **PX-HART:** Hart Modem
- **P-IP66:** 316L Stainless steel sensor head adaptor to increase IP rating
- **P-GTA:** Ceiling mount collecting
- **P-ASU:** Prosense sampling unit
- **PX-PD05:** PX Series Hand Terminal

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

PX Series Gas Detector Datasheet

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

PX Series Gas Detector Datasheet

XY	Gas	Product Code	Sensor Type	Measuring Range*
59	Xylene	PX(D/N) – 5935	Pellistor	0-100%LEL
60	Acetylene	PX(D/N) – 6035	Pellistor	0-100%LEL
61	Benzene	PX(D/N) – 6135	Pellistor	0-100%LEL
62	Ethylene Oxide	PX(D/N) – 6234	Electrochemical	0-20ppm
63	Vinyl Acetate	PX(D/N) – 6335	Pellistor	0-100%LEL
64	Hydrogen Sulfide	PX(D/N) – 6434	Electrochemical	0-100ppm
65	Oxygen	PX(D/N) – 6534	Electrochemical	0-25%VOL
66	Sulphur Dioxide	PX(D/N) – 6634	Electrochemical	0-10ppm
67	Nitric Oxide	PX(D/N) – 6734	Electrochemical	0-250ppm
68	Nitrogen Dioxide	PX(D/N) – 6834	Electrochemical	0-30ppm
69	Chlorine	PX(D/N) – 6934	Electrochemical	0-10ppm
70	Hydrocarbon	PX(D/N) – 7035	Pellistor	0-100%LEL
70	Hydrocarbon	PX(D/N) – 7033	Infrared	0-100%LEL
71	Carbon Dioxide	PX(D/N) – 7133	Infrared	0-5000ppm
71	Carbon Dioxide	PX(D/N) – 7133/B	Infrared	0-5%VOL
72	Freon	PX(D/N) – 7231	Semiconductor	0-2000ppm
73	JP8 Fuel	PX(D/N) – 7335	Pellistor	0-100%LEL
74	Formaldehyde	PX(D/N) – 7434	Electrochemical	0-10ppm
74	Formaldehyde	PX(D/N) – 7435	Pellistor	0-100%LEL
75	Hydrogen Cyanide	PX(D/N) – 7534	Electrochemical	0-25ppm
76	Hydrogen Peroxide	PX(D/N) – 7634	Electrochemical	*
77	Nonane	PX(D/N) – 7735	Pellistor	0-100%LEL
78	Acetaldehyde	PX(D/N) – 7835	Pellistor	0-100%LEL
79	Hydrogen Chloride	PX(D/N) – 7934	Electrochemical	0-25ppm
81	VOC	PX(D/N) – 8136	PID	*
82	Ozone	PX(D/N) – 8234	Electrochemical	*
83	Hydrofluoric Acid (HF)	PX(D/N) – 8334	Electrochemical	*
84	Phosphine	PX(D/N) – 8434	Electrochemical	0-10ppm
85	Isobutylene	PX(D/N) – 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.