

### 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 to make sure it operates perfectly and indicates a fault in case of any failure.

### Maintenance via Software

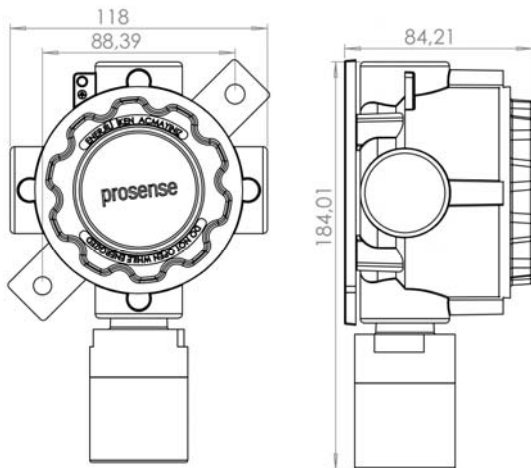
Prosense provides software to maintain your active system easily and calibrate the gas detectors properly via computer.

### Applications

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

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)	<15sec	<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](mailto: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	0-25ppm
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](mailto: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.