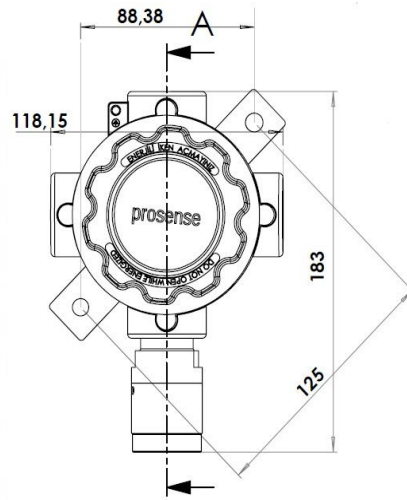


P Series

P-XY35 / P-XY34 / P-XY33 Datasheet



Description

- 4-20mA Analog output
- RS485 (Modbus RTU) output
- Stainless Steel Sensor Head
- 1/2" NPT Cable Gland
- Optional 3 Relay (2A, 1F)
- Optional IP66 Sensor Head Adaptor
- Suitable for Zone 1 or Zone 2 applications
- Approvals:

Ex II 2G Ex db IIC T6 Gb

Specifitacion	P-XY35	P-XY34	P-XY33
Sensing Element	Pellistor	Electrochemical	Infrared
Measurement Type	LEL	PPM, VOL	LEL, PPM, VOL
Output Signal	4-20mA RS485 Modbus RTU	4-20mA RS485 Modbus RTU	4-20mA RS485 Modbus RTU
Sensor Warm-up Time	60 sec	60 sec	60 sec
Response Time (T90)	<20 sec	<45 sec	<30 sec
Measuring Range	0-100 LEL	see the Table-1	see the Table-1
Accuracy	%±2	%±2	%±2
Operating Temperature	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
Humidity	5 ~ 95 %RH	5 ~ 95 %RH	5 ~ 95 %RH
Input	10-32 VDC	10-32 VDC	10-32 VDC
Power Consumption	Max. 4W	Max. 4W	Max. 4W
Optional Relay Outputs	2 Alarm, 1 Fault NO/NC Energized / De-energized	2 Alarm, 1 Fault NO/NC Energized / De-energized	2 Alarm, 1 Fault NO/NC Energized / De-energized
Cable Entry	2 x 1/2" NPT	2 x 1/2" NPT	2 x 1/2" NPT
IP Rating	IP65 Optional IP 66(Sensor Head)	IP65 Optional IP 66(Sensor Head)	IP65 Optional IP 66(Sensor Head)
Junction Box	Die-cast aluminium	Die-cast aluminium	Die-cast aluminium
Sensor Head	SS316L	SS316L	SS316L
Dimensions/Weight	183x118,15x88mm m (1420gr)	183x118,15x88mm (1420gr)	183x118,15x88mm (1420gr)
Atex Marking	Ex II 2G Ex db IIC T6	Ex II 2G Ex db IIC T6	Ex II 2G Ex db IIC T6
Hazardous Class	Zone 1 or Zone 2	Zone 1 or Zone 2	Zone 1 or Zone 2
Certificates	IECEX IMQ 18.0009X IEP 12 ATEX 082	IECEX IMQ 18.0009X IEP 12 ATEX 082	IECEX IMQ 18.0009X IEP 12 ATEX 082
Standards	EN 60079-0 EN 60079-1 EN 60079-18	EN 60079-0 EN 60079-1 EN 60079-18	EN 60079-0 EN 60079-1 EN 60079-18

* For more information please contact customer support

Applications

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

Optional Modules

- **P-3R+:** 2 Alarm, 1 Fault NO/NC relay output card
- **P-IP66:** 316L Stainless steel sensor head
- **P-GTA:** Ceiling mount collecting cone
- **UPQ-BTX:** Buat with 4 entries
- **P-HT150:** HC sensor for high temperature environmets (only for flammable gases)

P Series

P-XY35 / P-XY34 / P-XY33 Datasheet

Table 1: Gases and Detectors

XY	Gas	Product Code	Measuring Range	LEL(Vol) - TLV/TWA
30	LPG	P-3035 / P-3033	0-100% LEL	1,8
31	Methane	P-3135 / P-3133	0-100% LEL	4,4
32	Petrol Vapors	P-3235/ P-3233	0-100% LEL	1,2
33	n-Butane	P-3335 / P-3333	0-100% LEL	1,6
34	Propane	P-3435/ P-3433	0-100% LEL	2,1
35	Hexane	P-3535 / P-3533	0-100% LEL	1,1
36	Hydrogen	P-3635	0-100% LEL	4
37	Pentane	P-3735 / P-3733	0-100% LEL	1,5
38	Toluene	P-3835/ P-3833	0-100% LEL	1,2-1,27
39	Methyl Alcohol	P-3935	0-100% LEL	6-6,7
40	Heptane	P-4035/ P-4033	0-100% LEL	1,05
41	Octane	P-4135/ P-4133	0-100% LEL	1
42	Ethyl Alcohol	P-4235/ P-4233	0-100% LEL	3-3,3
43	Iso Propanol	P-4335/ P-4333	0-100% LEL	2
44	Carbon Monoxide	P-4434	0-300 ppm	50 ppm
		P-4434/B	0-500 ppm	50 ppm
		P-4434/C	0-1000 ppm	50 ppm
44	Carbon Monoxide	P-4435	0-100% LEL	12,5
45	Asetone	P-4535/ P-4533	0-100% LEL	2,6-3
46	Methyl Ethyl Ketone	P-4635/ P-4633	0-100% LEL	1,8
47	Ethyl Acetate	P-4735	0-100% LEL	2
48	Ammonia	P-4834	0-100 ppm	50 ppm
		P-4834/B	0-1000 ppm	50 ppm
48	Ammonia	P-4835	0-100% LEL	15,3
49	Ethylene	P-4935	0-100% LEL	2,7
50	Acetic Acid	P-5035	0-100% LEL	4
51	Butyl Acetate	P-5135/ P-5133	0-100% LEL	1,4
52	Cyclo Hexane	P-5235/ P-5233	0-100% LEL	1,3
53	Cyclo Pentane	P-5335/ P-5333	0-100% LEL	1,5-2
54	Dioxane	P-5435/ P-5433	0-100% LEL	2
55	Ethane	P-5535/ P-5533	0-100% LEL	3
56	Butyl Alcohol	P-5635/ P-5633	0-100% LEL	1
57	Styrene	P-5735/ P-5733	0-100% LEL	1,1
58	Propylene	P-5835/ P-5833	0-100% LEL	2,4
59	Xylene	P-5935/ P-5933	0-100% LEL	12,5
60	Acetylene	P-6035	0-100% LEL	3
61	Benzene	P-6135/ P-6133	0-100% LEL	3
62	Ethylene Oxide	P-6234	0-20 ppm	1 ppm
63	Vinyl Acetate	P-6335/ P-6333	0-100% LEL	2,6
64	Hydrogen Sulfure	P-6434	0-100 ppm	20 ppm
65	Oxygen	P-6534	0-25% Vol	19,5% Vol
66	Sulfur Dioxide	P-6634	0-10 ppm	5 ppm
67	Nitric Oxide	P-6734	0-250 ppm	25 ppm
68	Nitrogen Dioxide	P-6834	0-30 ppm	5 ppm
69	Chlorine	P-6934	0-10 ppm	1 ppm
70	Hydrocarbon	P-7035/ P-7033	0-100% LEL	-
71	Carbon Dioxide	P-7133	0-5000 ppm	5000 ppm
		P-7133/B	0-5% Vol	
72	Freon	P-7231	0-2000 ppm	-
73	JP8 Fuel	P-7335/ P-7333	0-100% LEL	0,6 - 0,7
74	Formaldehyde	P-7434/ P-7435	0-10 ppm,/ 0-100% LEL	-
75	Hydrocyanic Acid	P-7534	0-25 ppm	-
76	Hydrogen Peroxide	P-7634	0-300 ppm	-
77	Nonane	P-7733/ P-7735	0-100% LEL	-
78	Acetaldehyde	P-7833/ P-7835	0-100% LEL	-

- Prosense gas detectors are fully tested and calibrated before delivery. Gas Detectors must be routinely checked and calibrated to ensure fully operational at all times regarding EN 60079:29-2.