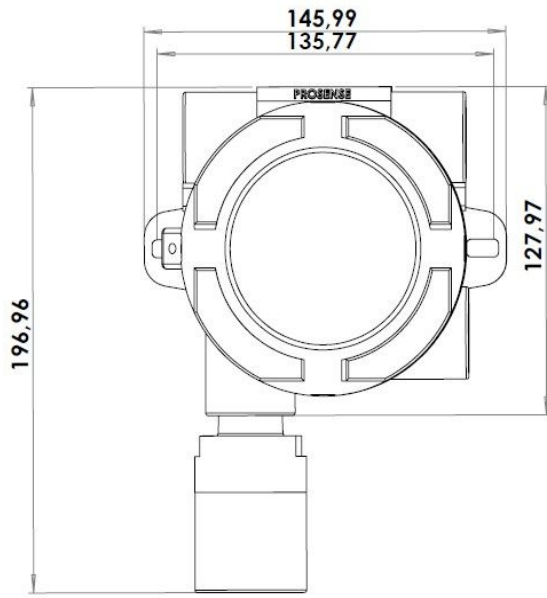


PQ Series

PQN-XY35 / PQN-XY34 / PQN-XY33 Data Sheet



Description

- 4-20mA Analog output, 3 wires connections
- RS485 (Modbus RTU) output, 4 wires
- 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
- User-friendly software
- Approvals:

Ex II 2G Ex db IIC T6 Gb

Specifitacions	PQ-XY35	PQ-XY34	PQ-XY33
Sensing Element	Pellistor	Electrochemical	Infrared
Measurement Type	LEL	ppm, Vol	LEL, ppm, Vol
Output Signal	4-20mA(3-Wire) RS485 Modbus RTU(4-Wire)	4-20mA(3-Wire) RS485 Modbus RTU(4-Wire)	4-20mA(3-Wire) RS485 Modbus RTU(4-Wire)
Sensor Warm-up Time	60 sec	60 sec	60 sec
Response Time (T90)	<25 sec	<45 sec	<30 sec
Measuring Range	0-100 LEL	Check the Table-1	Check the Table-1
Accuracy	%±2	%±2	%±2
Operating Temperature	-20°C ~ +70°C	-20°C ~ +70°C	-20°C ~ +70°C
Humidity	5 ~ 95 %RH	5 ~ 95 %RH	5 ~ 95 %RH
Input	12-24 VDC	12-24 VDC	12-24 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 Options	3 x 1/2 NPT or 3x 3/4 NPT or 3x M20	3 x 1/2 NPT or 3x 3/4 NPT or 3x M20	3 x 1/2 NPT or 3x 3/4 NPT or 3x M20
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	Stainless Steel SH30	Stainless Steel SH30	Stainless Steel SH30
Dimensions/Weight	140x100x195mm (2000gr)	140x100x195mm (2000gr)	140x100x195mm (2000gr)
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 - Zone 2	Zone 1 - Zone 2	Zone 1 - Zone 2
Certificates	IEP 12 ATEX 082 IEP 12 ATEX 103 IEP 12 ATEX 118 X IMQ 11 ATEX 38 X	IEP 12 ATEX 082 IEP 12 ATEX 103 IEP 12 ATEX 118 X IMQ 11 ATEX 38 X	IEP 12 ATEX 082 IEP 12 ATEX 103 IEP 12 ATEX 118 X IMQ 11 ATEX 38 X
Standards	EN 60079-0 EN 60079-1 EN 60079-18 EN 60079-29-1	EN 60079-0 EN 60079-1 EN 60079-18 EN 60079-29-1	EN 60079-0 EN 60079-1 EN 60079-18 EN 60079-29-1

Applications

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

Optional Modules

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

PQ Series

PQN-XY35 / PQN-XY34 / PQN-XY33 Datasheet

Table 1: List of Gases to be detected

XY	Gas	Product Code	Measuring Range	LEL(Vol) - TLV/TWA
30	LPG	PQN-3035/PQN-3033	0-100% LEL	1,8
31	Methane	PQN-3135/PQN-3133	0-100% LEL	4,4
32	Petrol Vapors	PQN-3235/PQN-3233	0-100% LEL	1,2
33	n-Butane	PQN-3335/PQN-3333	0-100% LEL	1,6
34	Propane	PQN-3435/PQN-3433	0-100% LEL	2,1
35	Hexane	PQN-3535/PQN-3533	0-100% LEL	1,1
36	Hydrogen	PQN-3635	0-100% LEL	4
37	Pentane	PQN-3735/PQN-3733	0-100% LEL	1,5
38	Toluene	PQN-3835/PQN-3833	0-100% LEL	1,2-1,27
39	Methyl Alcohol	PQN-3935/PQN-3933	0-100% LEL	6-6,7
40	Heptane	PQN-4035/PQN-4033	0-100% LEL	1,05
41	Octane	PQN-4135/PQN-4133	0-100% LEL	1
42	Ethyl Alcohol	PQN-4235/PQN-4233	0-100% LEL	3-3,3
43	Iso Propanol	PQN-4335/PQN-4333	0-100% LEL	2
44	Carbon Monoxide	PQN-4434	0-300 ppm	50 ppm
		PQN-4434/B	0-500 ppm	50 ppm
		PQN-4434/C	0-1000 ppm	50 ppm
44	Carbon Monoxide	PQN-4435	0-100% LEL	12,5
45	Asetone	PQN-4535/PQN-4533	0-100% LEL	2,6-3
46	Methyl Ethyl Ketone	PQN-4635/PQN-4633	0-100% LEL	1,8
47	Ethyl Acetate	PQN-4735/PQN-4733	0-100% LEL	2
48	Ammonia	PQN-4834	0-100 ppm	50 ppm
		PQN-4834/B	0-1000 ppm	50 ppm
48	Ammonia	PQN-4835	0-100% LEL	15,3
49	Ethylene	PQN-4935/PQN-4933	0-100% LEL	2,7
50	Acetic Acid	PQN-5035/PQN-5033	0-100% LEL	4
51	Butyl Acetate	PQN-5135/PQN-5133	0-100% LEL	1,4
52	Cyclo Hexane	PQN-5235/PQN-5233	0-100% LEL	1,3
53	Cyclo Pentane	PQN-5335/PQN-5333	0-100% LEL	1,5-2
54	Dioxane	PQN-5435/PQN-5433	0-100% LEL	2
55	Ethane	PQN-5535/PQN-5533	0-100% LEL	3
56	Butyl Alcohol	PQN-5635/PQN-5633	0-100% LEL	1
57	Styrene	PQN-5735/PQN-5733	0-100% LEL	1,1
58	Propylene	PQN-5835/PQN-5833	0-100% LEL	2,4
59	Xylene	PQN-5935/PQN-5933	0-100% LEL	12,5
60	Acetylene	PQN-6035	0-100% LEL	3
61	Benzene	PQN-6135/PQN-6133	0-100% LEL	3
62	Ethylene Oxide	PQN-6234	0-20 ppm	1 ppm
63	Vinyl Acetate	PQN-6335/PQN-6333	0-100% LEL	2,6
64	Hydrogen Sulfure	PQN-6434	0-100 ppm	20 ppm
65	Oxygen	PQN-6534	0-25% Vol	19,5% Vol
66	Sulfur Dioxide	PQN-6634	0-10 ppm	5 ppm
67	Nitric Oxide	PQN-6734	0-250 ppm	25 ppm
68	Nitrogen Dioxide	PQN-6834	0-30 ppm	5 ppm
69	Chlorine	PQN-6934	0-10 ppm	1 ppm
70	Hydrocarbon	PQN-7035/PQN-7033	0-100% LEL	-
71	Carbon Dioxide	PQN-7133	0-5000 ppm	5000 ppm
		PQN-7133/B	0-5% Vol	
72	Freon	PQN-7231	0-2000 ppm	-
73	JP8 Fuel	PQN-7335/PQN-7333	0-100% LEL	0,6 - 0,7
74	Formaldehyde	PQN-7434/PQN-7435	0-10 ppm/0-100% LEL	-
75	Hydrocyanic Acid	PQN-7534	0-25 ppm	-
76	Hydrogen Peroxide	PQN-7634	0-300 ppm	-
77	Nonane	PQN-7733/PQN-7735	0-100% LEL	-
78	Acetaldehyde	PQN-7833/PQN-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.

