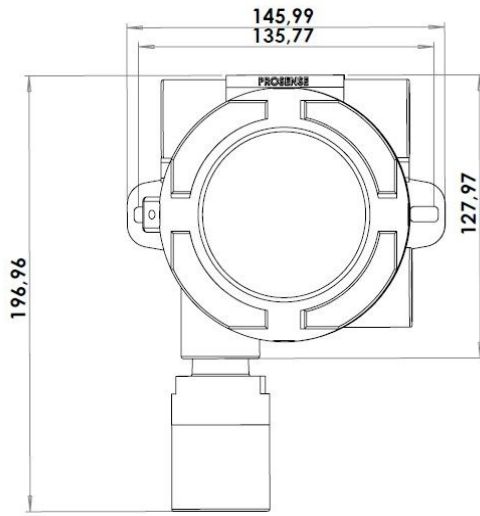


PQ Series

PQD-XY35 / PQD-XY34 / PQD-XY33 Datasheet



Description

- PQD offer an OLED display with 8x64 characters and 5 mode status LEDs for monitoring the gas concentration. Single-Operator calibration can be done without opening the housing by using the magnetic key.
- 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

Specifitacions	PQD-XY35	PQD-XY34	PQD-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
Display	128x64 Graphic OLED	128x64 Graphic OLED	128x64 Graphic OLED
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	12-34 VDC	12-34 VDC	12-34 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	3x 1/2 NPT or 3x 3/4 NPT or 3x M20	3x 1/2 NPT or 3x 3/4 NPT or 3x M20	3x 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

PQD-XY35 / PQD-XY34 / PQD-XY33 Datasheet

Table 1: Gases and Detectors

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