

Detection of VOC Gases

PID technology is the latest generation of fixed photoionization detectors that continuously detect a wide range of volatile organic compound (VOC).

Trustworthy Certification

PROSENSE "PQ" Series fixed gas detectors are certified with ATEX/IECEx and SIL2.

Ex-proof Safety

The continuous measurement of VOC gases is done safely in hazardous areas thanks to the ex-proof housing.

Functional Safety

Prosense promotes SIL approved products to reduce safety risks associated with increasingly complicated systems as malfunctioning equipment could pose a potential risk. PQ series has ongoing process for SIL-2.

Robust and Durable

SS316 stainless steel sensor head performs perfectly under harsh environmental conditions with the IP65/IP66 protection class.

SAFELOG Data Logger

PQ series records status up to 250 events. In case of sudden power cut, you can save the data thanks to the cell battery.

Ready to Operate

4-20mA Analog and Modbus RS485 RTU outputs are provided onboard to operate properly without any additional setup.

Easy Maintenance

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



Continuous Self-Test

The detectors check itself continuously if it operates perfectly or not and indicates a fault in case of any failure.

Optional OLED Display

The OLED screen can be easily read from any angle.

Adjustable Parameters

All parameters can be easily changed according to the application requirements or facility standards.

Easy Status Recognition

Colored LEDs (green, yellow and red) provide additional alarm and status information with OLED display.

Maintenance via Software

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

Remote Display

Depending on the application requirements, the screen can be placed separately.

Applications

- Oil&Gas
- Onshore/Offshore
- Process Industry
- Chemical Industry
- Food and Medicine Facilities
- Metal Industry
- Gas Distribution Stations
- Laboratories

Automatic Calibration

Detector calibration can be done automatically via preset values recorded in detector software once calibration requirements are supplied.

Auto Analogue Signal Calibration and Monitoring

PQ series detectors carefully check the analog output signal level continuously to match the measurement level before promptly transferred to the panel. PQ Series adjust the signal level in case of any deviation and generate fault signal when adjustment fails.

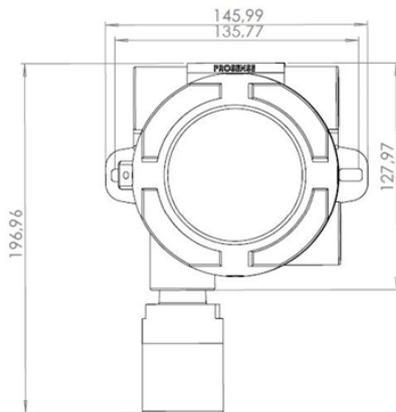
Simple External Equipment Control

Optional relay module enables you to use it as an independent gas detection system with two arbitrarily adjustable concentration alarms and one fault alarm.

Specifications	PQD - 8136	PQN - 8136
Sensing Element	PID	
Measuring Range	ppm/ppb	
Output Signal	4-20mA Analog and Modbus RS485 RTU	
Sensor Warm-up Time	60sec	
Response Time (T90)	<30sec*	
Accuracy	%±1	
Operating Temperature	-40°C ~ +70°C	
Humidity	0~95%RH Non-Condensing	
Input	Min 10VDC - Max 32VDC - Nominal 24VDC	
Display	128x64 Graphic OLED 5 LED indicator for detector status	—
Event logging	Records alarm, fault and maintenance events up to 250 logs	
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 - 3xM20	
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	196,96x145,99x112mm / 2100gr	
ATEX Marking	II 2G Ex db IIC T6 Gb II 2G Ex mb db IIC T6 Gb I M2 Ex db I Mb	
Hazardous Class	Zone 1 - Zone 2 - M2	
Certificates	<ul style="list-style-type: none"> •ExVeritas 18 ATEX 0371X •IECEx EXV 18.0021X •FTZU 18 ATEX 0086 •IEIP12 ATEX 6118X •SIL2** 	
Standards	<ul style="list-style-type: none"> • IEC EN 60079-0 • IEC EN 60079-1 • IEC EN 60079-18 	

*When set to continuous measurement.

**Pending.



Optional Modules

- **PQ-3R+**: 2 Alarm, 1 Fault (NO/NC adjustable) relay output card
- **P-IP66**: 316L Stainless steel sensor head adaptor to increase IP rating
- **PQD-SS**: Stainless steel junction box with display
- **PQN-SS**: Stainless steel junction box without display
- **P-GTA**: Ceiling mount collecting
- **P-ASU**: Prosense sampling unit
- **PQ-DISP**: Remote display
- **PQ-PD05**: PQ Series Hand Terminal

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