

PQD-3035 LPG GAS DETECTOR



EN60079-0 EN60079-1
 EN60079-18 EN60079-29-1

FEATURES

▶ Trustworthy Certification

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

▶ Ex-proof Safety

The continuous measurement of toxic and explosive gases is done safely in hazardous areas thanks to the ex-proof housing

▶ Performance Approval

It complies with the measurement performance criteria in accordance with the IEC EN 60079-29-1 standard.

▶ 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.

▶ Accurate Readings

Pellistor, Electrochemical, PID, 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

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

▶ OLED Display

The OLED screen can be easily read from any angle.

▶ SAFELOG Data Logger

PQD Series records status up to 250 events. In case of

sudden power cut, you can save the data thanks to the cell battery.

▶ 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 the sensor in high gas concentration in order to properly secure the operational lifetime of pellistor sensor.

▶ Auto Analog Signal Calibration and Monitoring

PQD Series detectors continuously check the analog output signal level to match the measurement level before promptly transferred to the panel. PQD Series adjusts the signal level in case of any deviation and generates a fault signal when the adjustment fails.

▶ Zero Suppression

Adjusting, the detector can show a certain measurement level as 0 (zero) to avoid unnecessary concerns.

▶ 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.

▶ Continuous Self-Test

The detectors check itself continuously to make sure it operates perfectly and indicates a fault in case of any failure.

▶ Adjustable Parameters

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

▶ Remote Display

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

▶ Easy Status Recognition

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

▶ Maintenance via Software

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

▶ Applications

- Oil&Gas
- Petrochemical
- Onshore/Offshore
- Steel-Metal Industry
- Chemical Industry
- Process Industry
- Gas Distribution Stations
- Water Treatment Plants

TECHNICAL SPECIFICATIONS

Sensing Element	Pellistor
Output Signals	4-20mA and Modbus RS485 RTU
Sensor Warm-Up Time	60sec
Response Time(T90)	<25sec
Accuracy	%±1
Operating Temperature	-40°C ~ +70°C
Humidity	0~ 100%RH ** Non-Condensing
Input	Min 10VDC -Max 32VDC -Nominal 24VDC
Display	128x64 Graphic OLED
Event Logging	5 LED indicator for detector status Records alarm, fault and maintenance events up to 250 logs
Power Consumption	Max. 4W
Optional Relay Outputs	2 Alarms (Selectable) 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	•ExVeritas 18 ATEX 0371X •IECEX EXV 18.0021X •FTZU 18 ATEX 0086 •IEP12 ATEX 6118X •SIL2 (Pending)
Standards	• IEC EN 60079-0 • IEC EN 60079-1 • IEC EN 60079-18 • IEC EN 60079-29-1

