

High Price-Performance Ratio

PC3 has a certain higher price-performance ratio considering its substitutes in the market.

Well-Suited Solution for Light Industry

PC3 is specially designed for the light industry as a Category 3 device.

Accurate Readings

Electrochemical, and Catalytic sensors undoubtedly provide an accurate and sensitive measurement.

Ready to Operate

4-20mA Analog is provided onboard to operate properly without any additional setup. Additionally, it can be integrated into other systems with Modbus RS485 RTU and relay module.

Automatic Calibration

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

Fall-Safe Technology Alarming

Alarm 1 and Alarm 2 relays are easy to set to default LEL, ppm, VOL levels. The fault relay output properly indicates fault status.

Robust and Reliable Housing

Epoxy painted aluminum housing and IP65 protection class allow to use in harsh environmental conditions.

Universal Outputs

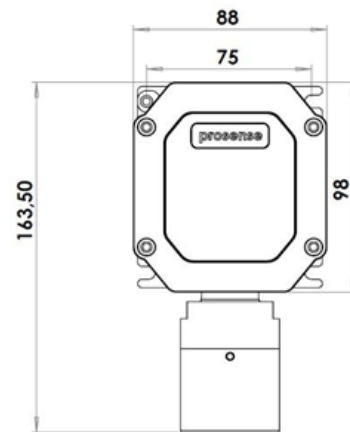
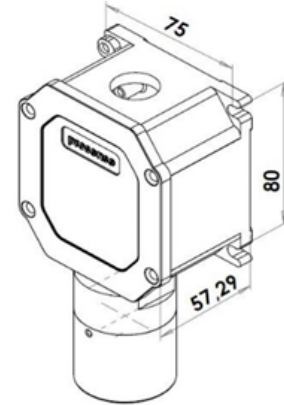
4-20mA Analog, Modbus RS485 RTU, and relay outputs are simple to operate efficiently and they are universally usable in any control panel.

Applications

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

Optional Modules

- P-3R+: 2 Alarms and 1 Fault (NO/NC adjustable) relay output card.



PC3 Series Gas Detectors Datasheet

Specifications	PC3-XY24	PC3-XY12
Sensing Type	Electrochemical	Catalytic
Output Signals	4-20mA Analog Modbus RS485 RTU*	
Sensor Warm-Up	60sec	
Response Time	<30**sec	<25sec
Accuracy	%±1	
Operating Temperature	-20°C ~ +50°C	
Humidity	5 ~ 95%RH Non-Condensing	
Input Voltage	Min 10VDC - Max 32VDC - Nominal 24VDC	
Power Consumption	Max.2W	
Optional Relay Outputs	2 Alarms (Selectable), and 1 Fault (All relays are NO/NC adjustable)	
Cable Entry	1x 1/2"NPT	
Ingress Protection	IP65	
Enclosure	Epoxy Painted Die-cast Aluminium	
Sensor Head	Nickel-plated Brass SH20	Nickel-plated Brass SH10
Dimensions	230x120x100mm	190x110x70mm
Weight	1100gr	810gr
Hazardous Class	Zone 2 - Category 3	
Standards (Sensor Head)	•EN 60079-0	•EN 60079-1 •EN 60079-18

* To manage MODBUS Address optional Prosense Hand Terminal must be ordered.
** Sensor dependent.

XY	Gas	Product Code	Sensor Type	Measuring Range*
30	LPG	PC3-3012	Catalytic	0-100%LEL
31	Methane	PC3-3112	Catalytic	0-100%LEL
33	n-Butane	PC3-3312	Catalytic	0-100%LEL
34	Propane	PC3-3412	Catalytic	0-100%LEL
36	Hydrogen	PC3-3612	Catalytic	0-100%LEL
37	Pentane	PC3-3712	Catalytic	0-100%LEL
44	Carbonmonoxide	PC3-4424	Electrochemical	0-300ppm
48	Ammonia	PC3-4824	Electrochemical	0-100ppm
48	Ammonia	PC3-4824/B	Electrochemical	0-1000ppm
62	Ethylene Oxide	PC3-6224	Electrochemical	0-20ppm
64	Hydrogen Sulfide	PC3-6424	Electrochemical	0-100ppm
65	Oxygen	PC3-6524	Electrochemical	0-25%VOL
66	Sulfur Dioxide	PC3-6624	Electrochemical	0-10ppm
67	Nitric Oxide	PC3-6724	Electrochemical	0-250ppm
68	Nitrogen Dioxide	PC3-6824	Electrochemical	0-30ppm
69	Chlorine	PC3-6924	Electrochemical	0-10ppm

* Please consult Prosense sales team for specific measuring ranges and other gases those are not listed here.
Prosense gas detectors are fully tested and calibrated before delivery. Gas detectors must always be routinely controlled and calibrated regarding EN 60079-29-2.

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