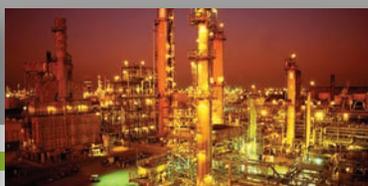




prosense

2018

GAS DETECTION SYSTEM





prosense

A COMPREHENSIVE RANGE DESIGNED TO MEET ALL YOUR REQUIREMENTS

Prosense provides solutions for every customer's special needs. Prosense's mission is make world safer and healthier via producing best fixed gas detectors and control panels.

Prosense is not only a producer, Prosense always cares about customers needs and provides application driven solutions for gas detection and control systems. Our engineering team provides best solution with implementation and long term maintenance plan.

Prosense provides industrial application solutions for
Oil and Gas
Petrochemical Industry
Food and Beverage Production
Water Treatment Plants
Laboratories
Pharmaceutical
Steel Production
Automotive

Prosense always senses value of human life and provides solution to keep it safe. Prosense also knows importance of keeping each working environment continuously operational. Hence we spend extra effort to ensure our products and services designed maximum reliability and robustness.

Prosense has a complete range of high-performance gas detectors and gas control panels primarily designed for personnel protection against toxic, flammable and asphyxiate gases.

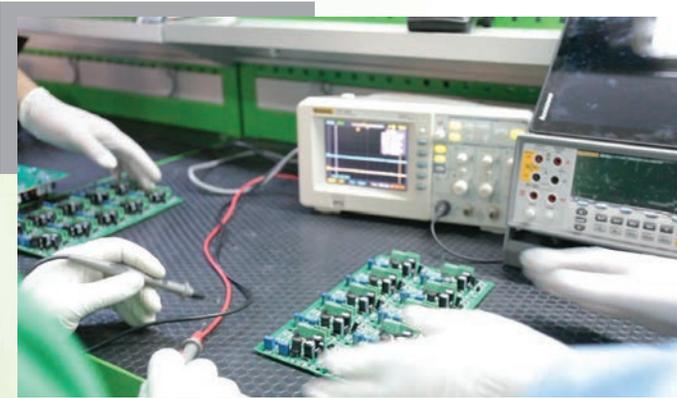
Our ATEX certified gas detection systems and controllers are truly 'state of the art' devices offering unparalleled features and capabilities. Prosense products are targeted at industrial applications and commercial offering both standard and badged equipment to OEM, resellers and end users worldwide.



Why Prosense

At Prosense we offer the following support to all our products

- In-house development capability and custom made units.
- Product Training
- Speedy dispatch dates
- Full design and planning of gas detection projects
- ISO 9001:2015, QAN and QAR quality compliant



SERVICES

Commissioning

Prosense help you to make sure that your equipment is properly installed and working correctly. We train you on equipment operation, maintenance and calibration. Our knowledge and expertise gives you option to be proactive and safe in maintaining your plant.

Engineering Solutions

Our Engineering team work directly with you to address all your needs, provide optimized solutions with best performance, lower cost and easy maintenance.

Training

Our training courses are designed to develop a better understanding of hazardous gas environments and effective usage of our gas detectors. We can provide customized on-site trainings to your company's specific needs.

Customer Support

Prosense provides timely support for your product application, service and technical questions. Our engineers provide fast and quality repair services using only factory original parts. Our skilled engineers provide calibration services for most detectors.

PREVENTIVE SAFETY MEASURES

Gas detection is one of the important preventive safety measures in order to detect abnormal concentrations of gases in an environment before they lead to dramatic losses of lives as well as possessions.

Gas detection is subject to strict quality controls both during design and production phase and during installation and maintenance phase as it is definitely important for safety. Controls of each phase are carried out by the experienced staff who guarantee full reliability without any doubt.

PQD & PQN SERIES



PQN and PQD series are designed to monitor flammable and toxic contents in harsh environments for toughest industrial requirements.

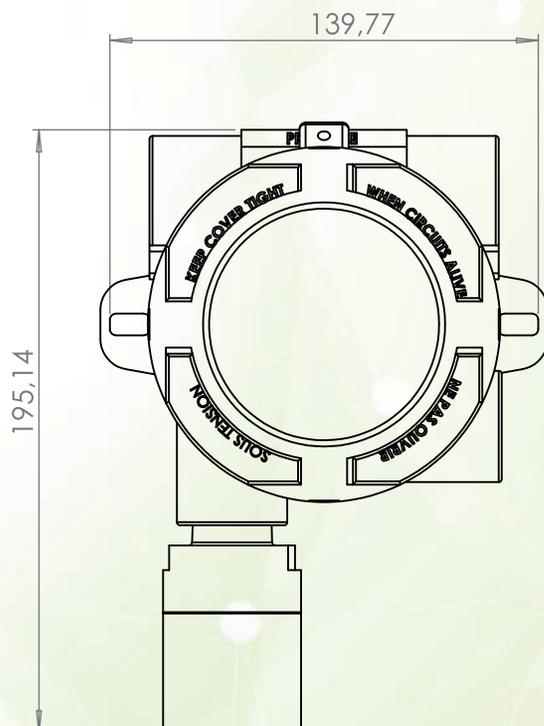
PQD offer an OLED display with 8x64 characters and 5 mode status LEDs for the gas concentration reading. Single-Operator Calibration can be done without opening the housing by using magnetic key.

ATEX / Zone1-2

Specifications:

- OLED display with PQD series
- User-friendly software
- Standard 4-20mA Analog output, 3 wires connections,
- Standard RS485 (Modbus RTU) output, 4 wires
- Standard Stainless Steel Sensor Head
- Standard 1/2" NPT Cable Gland
- Optional 3 Relay (2A, 1F)
- Optional IP66 Sensor head adaptor
- Zone 1 or Zone 2
- Approvals

 II 2G Ex d IIC T6 Gb



P SERIES

PROSENSE P Series detectors can reliably detect flammable-explosive and toxic gases in industrial environments and classified areas.

Pellistor and Infrared sensors employed for the flammable gas detection show excellent output linearity up to 100 % LEL.

Electrochemical and Infrared sensors employed for the toxic gas and Oxygen detection show excellent outputs in ppm and vol ranges.

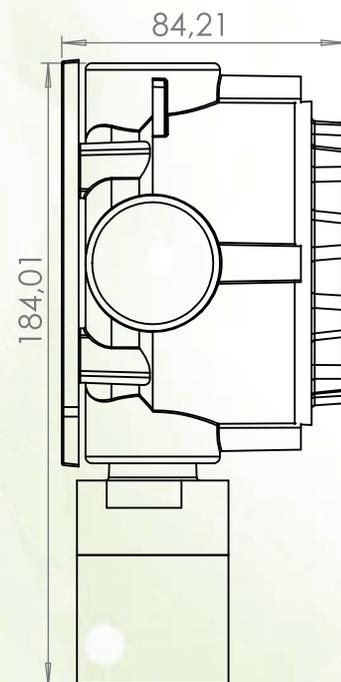
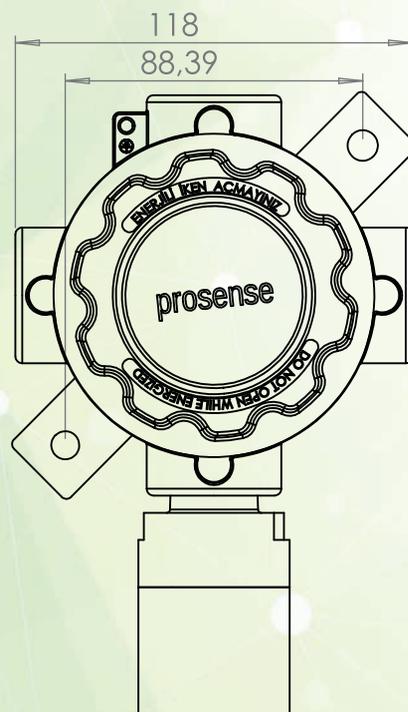


ATEX / Zone1-2

Specifications:

- Standard 4-20mA Analog output, 3 wires connections,
- Standard RS485 (Modbus RTU) output, 4 wires
- Standard Stainless Steel Sensor Head
- Standard 1/2" NPT Cable Gland
- Optional 3 Relay (2A,1F)
- Optional IP66 Sensor head adaptor
- Zone 1 or Zone 2

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PE SERIES



PROSENSE PE Series detectors can reliably detect flammable-explosive gases and offers cost effective solutions for many applications in classified areas.

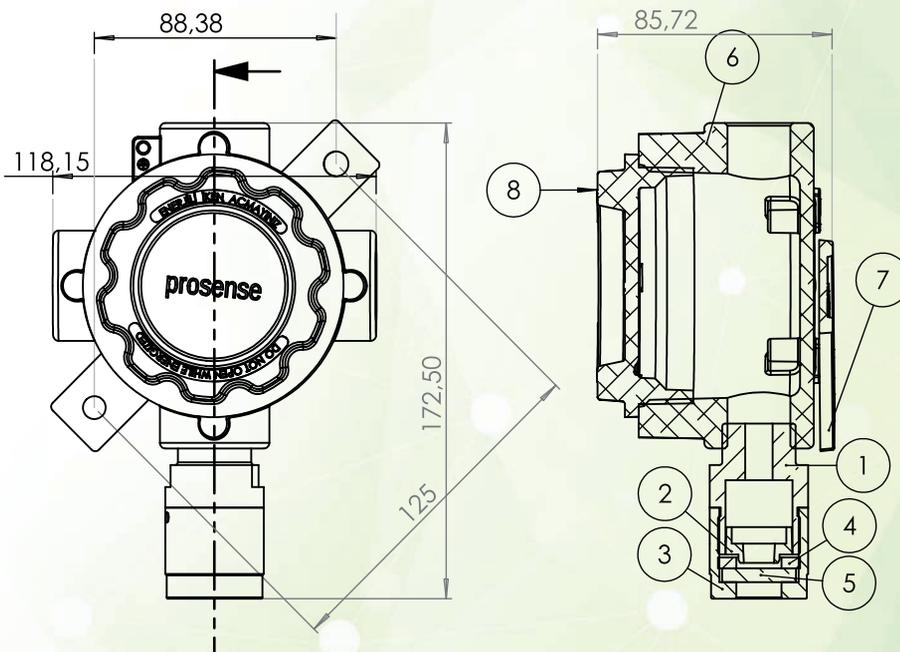
Catalytic sensors employed for the flammable Gas detection in PE series show excellent output linearity up to 100% LEL.

ATEX / Zone1-2

Specifications:

- Standard 4-20mA Analog Output, 3 wires connection
- Optional 2 Relay (Alarm1, Alarm2) outputs
- 1/2" NPT Cable Gland
- Zone 1 & Zone 2
- Approvals

 II 2G Ex d IIC T6 Gb



APPLICATIONS

LPG Stations
Boiler Room Laboratories
Light Industrial Applications
Laboratories

PC3 SERIES

PROSENSE PC3 Series detectors can reliably detect flammable and toxic gases in industrial environments.

Optional P-3R relay card provides three-level selectable alarm relay (Alarm1 and Alarm2) and FAULT outputs. Alarm levels can be set to predefined values to connect detector conventional fire control panels or individually manage to siren or solenoid valves.

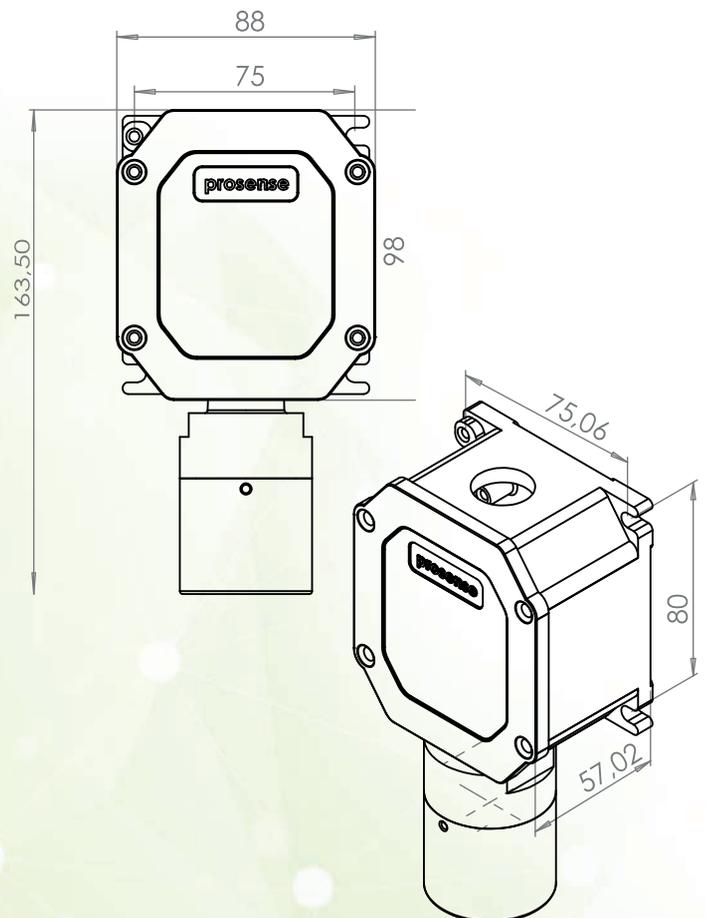
Sensor Head and cable gland in PC3 Series detectors are ATEX certified. PC3 series can be used as Category 3 device and in Zone 2 applications with specially designed IP65 Die Cast Aluminum Junction Box.



CATEGORY 3

Specifications:

- Standard 4-20mA Analog Output
- Die Cast Aluminum Junction Box
- ATEX Certified Sensor Head and Cable Gland
- IP65 Protection Class
- Optional (P-3R) Relay card
- Optional RS485 (Modbus RTU) Interface module
- Approvals (Sensor Head and Cable Gland)



BTN SERIES



Prosense BTN Series detector can reliably detect flammable gases like LPG, Methane, Propane, Butane, Hydrogen and toxic gases such as CO, and FREON also for O₂. BTN series effectively usable in light-domestic environments and non-classified areas as a cost effective solution.

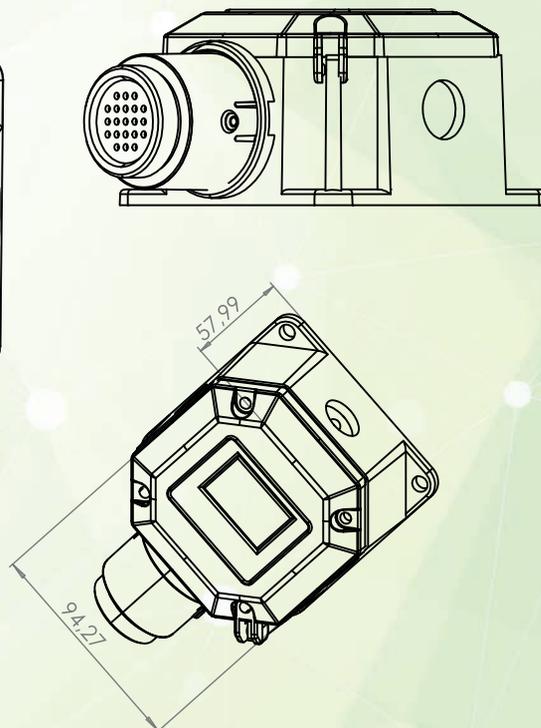
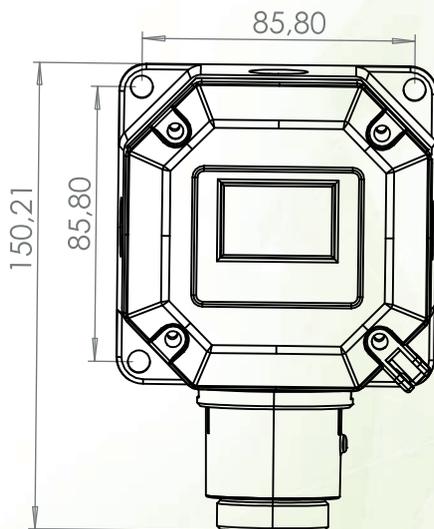
High quality, catalytic and electrochemical sensors employed in BTN series show excellent results. The special detector cover provides easy access to detector and terminal while making connection.

BTN series has 3 relay outputs which are 2 selectable alarm (Alarm1 and Alarm2) and fault.

BTN Series Gas Detectors can provide both RTU Modbus output and two relay outputs at same time with optional RS485 interface module.

Specifications:

- 3 Relay outputs (Alarm1, Alarm2 and Fault)
- Optional RS485 (Modbus RTU) Interface module
- PG11 Cable Gland included
- IP54 Protection Class
- ABS Housing



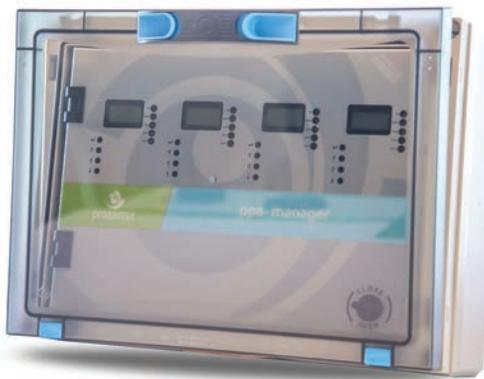
PPS SERIES



Prosense (PPS-CO) and (PPS-NO2) addressable gas detectors for continuously monitor carbon monoxide and nitrogen dioxide gases in the underground car parks. High quality electrochemical sensor employed in PPS series show excellent results in ppm range.

PPS series gas detectors can communicate to PPS Manager Control Panel with serial connection. PPS series detectors work in following ranges according to EN 50545-1:

PPS-CO : 0-300 ppm
PPS-NO2 : 0-30 ppm
LPG : 0-100 % LEL



Gas Detection System for Car Parks

Specifications:

- Up to 4 open loops
- Up to 32 detectors for each loop (total 128 detectors)
- Monitoring average or high alarm levels
- Each detector can be monitoring separately
- 2x8 LCD screen for each zone
- 5 individual LED status for each zone
- 2 Alarm relay for each zone
- 1 Alarm and 1 fault relay output to monitor overall system status
- Up to 1 km Cable length
- 2x12V-4.3A Battery connections

DP32 CONTROL PANEL



Prosense DP32 is an innovative gas control panel to meet tough industrial requirements and allow monitoring explosive (%LEL) and toxic (PPM) gases.

DP32 panel can monitor 32 addressable gas detectors. DP32 panel comes with IP66 protection class ABS cabinet. Gas control panel has 24 VDC 8A power supply and can allocate 2 optional back-up batteries (12V 7 Ah) to ensure operation in case of power failure.

DP32 panel has programmable alarms (Alarm1, Alarm2) can be adjusted on LCD display which can also show real time measurement results. It has also status LEDs for each channel to provide visual alerts.

Optional S-8R relay module card allows to implement furthermore 32 (NO / NC) optional programmable contact outputs.

Monitoring and programming can be managed easily with 128 * 64 wide LCD screen. DP32 automatically recognize connected detectors with advanced DP32 management software algorithm. Panel also comes with 32 LEDs indicators that can monitor each gas detector status. Gas type, measurement types and levels are automatically detected and displayed on the LCD display.

Specifications:

- Up to 32*RS485 Modbus Serial inputs
- Independent configuration for each detector
- 1x24V Digital Input
- Programmable 4 Alarm Relays (2xAlarms, Fault, AUX)
- Optional S-8R Relay Output modules (max 32 relays)
- Log events
- 128 X 64 Graphic LCD
- IP 66 Protection Class
- Easy and simple field programming
- Optional remote programming and monitoring software

DP4 & DP8 CONTROL PANEL

Prosense DP4/8 is an innovative gas control panel to meet tough industrial requirements and allow monitoring explosive (%LEL) and toxic (PPM) gases in industrial environments.

DP4/8 panel can monitor 4/8 Analog 4-20 mA gas detectors. DP4/8 panel comes with IP66 protection class ABS cabinet. Gas control panel has 24 VDC 4.5A power supply and can allocate 2 optional back-up batteries 12V 7 Ah. to ensure operation in case of power failure.

DP4/8 panel has programmable alarms (Alarm1, Alarm2) can be adjusted on LCD display which can also show real time measurement results. It has also status LEDs for each channel to provide visual alerts.

Optional RS485 (Modbus RTU) Interface Module provides signal output for tracking and information transfer to the SCADA system.

Optional S-4R/S-8R relay module card allows to implement furthermore 12/24 (NO / NC) optional programmable contact outputs.



Specifications:

- Specifications:
- 4/8 Analog 4-20 mA inputs
- Independent configuration for each detector
- 1x24V Digital Input
- Programmable 4 Alarm Relays (2xAlarms, Fault, AUX)
- Optional S-8R Relay Output modules (max 24 relays) for DP8
- Optional S-4R Relay Output modules (max 12 relays) for DP4
- Optional RS485 (Modbus RTU) Interface
- Log events
- 128 X 64 Graphic LCD
- IP 66 Protection Class
- Easy and simple field programming
- Optional remote programming and monitoring software



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