

# PL4+D

PL4+D, for DIN-rail mounting, is an innovative gas control unit, ideal for small plants up to 12 detectors.

It allows to monitor 4 gas detectors connected directly to the control panel (4-20 mA) and additional 8 detectors via remote 8-input cards STG/IN8S. Every input can be configured for a different kind of gas in order to detect both flammable and toxic compounds, refrigerant gases as well as Oxygen depletion and enrichment. The panel can manage 5 output relays aboard the panel and additional 32 via STG/OUT16S+STG/8REL.

The backlit LCD display assures a precise indication of the gas concentration being measured and the alarm set points. Mode status LED's provide a visual indication for alarm levels, fault and power-on. An internal buzzer is provided for an audible alarm in case of alarm or fault.

PL4+D is SIL1 and it is ATEX marked as follows:

CE 0722 Ex II (2) G [Ex Gb] II



## Electrical data

|                        |   |
|------------------------|---|
| Power supply           | 12 -24 Vdc  |
| Inputs                 | 4 analogue 4-20mA inputs, up to 12 by using the optional modules:<br>IN4-OUT4: addition of 4 analogue inputs<br>IN8S: addition of 8 analogue inputs   |
| Outputs                | 5 relays: 1 associated to fault, 4 programmable<br>Up to further 32 outputs can be added:<br>IN4-OUT4: addition of 4 relays<br>OUT16: addition of 16 O/C outputs (convertible into relays with the 8REL module) |
| Serial ports           | 1 x RS485 for field installation<br>1 x USB for programming, supervision and firm-ware updating   |
| Communication protocol | Galileo or Modbus   |
| Absorption             | 100 mA at 24 Vdc (without connected loads)  |
| Relays contact ratings | 10A at 250V relays of panel board<br>16A at 250V relays of IN4-OUT4 module and 8REL module  |

## Functionalities

|                       |  |
|-----------------------|--|
| Programming           | Configuration with Sensitron software                                      |
| Operating levels      | 3, with numerical password customizable                                    |
| Set / Unset detectors | Possibility of unset one or more channels for field maintenance            |
| Test                  | Possibility of channels test field   |
| Supervision           | Efficient Modbus protocol for system supervision                           |
| Event log             | The event log can be visualised from the gas panel or by the software      |
| Date and time         | Internal clock with backup to keep the date and time even after a shutdown |
| Visual indications    | LCD display 4rows x 16columns<br>10 status LEDs                            |
| Acoustic indications  | Buzzer 60 dB at 1m   |
| Front panel buttons   | Keypad with 4 shift buttons and ENTER button                               |

## Environmental conditions

|                       |                            |
|-----------------------|----------------------------|
| Storage temperature   | -20 / +60°C                |
| Operating temperature | 0 / +50°C                  |
| Operating humidity    | 15 / 85% RH non condensing |

## Box

|            |  |
|------------|--|
| Material   | ABS                                      |
| Dimensions | 9 DIN module<br>(158.5 x 90.0 x 60.0 mm) |
| Weight     | 400 g                                    |
| IP Grade   | -  |

## Compliance

|      |  |
|------|--|
| EMC  | EN 61000-6-3:2007 + A1:2011; EN 50270:2015                             |
| ATEX | ATEX Directive 2014/34/UE<br>EN IEC 60079-0:2018<br>EN 60079-29-1:2016 |

## Product codes

|                 |   |
|-----------------|---|
| STPL4+D         | PL4+D gas panel                                   |
| STG/MTSS1-CONF  | Software for PC programming                       |
| STG/IN4-OUT4-S1 | Remote module with 4 analogue inputs and 4 relays |
| STG/IN8S        | Remote module with 8 analogue inputs              |
| STG/OUT16S      | Remote module with 16 O/C outputs                 |
| STG/8REL        | 8 relays board to be connected to STG/OUT16       |
| AL09            | 24 Vdc power supply                               |
| STG/IPBOX       | IP65 ABS box                                      |

# PL4+D

## Mechanical drawings

