



1G421/1G201 SENSOR RANGE

The Sperosens 1G421 and 1G201 sensor range provides a cost-effective way to monitor toxic gases. The unit accommodates large sensor cells with longer life and higher concentration ranges. Typical gases are: CO, SO₂ and NO₂.

The sensor range is by default certified to Ex ia I, which makes it suitable for intrinsically safe applications in underground mines.

The monitored engineering value is displayed on a large display, and the output is available as a 4-20mA or 0-1mA signal.

KEY FEATURES

- Pre-calibrated sensor modules
- Field calibration (if required) via user menu
- Menu operated by single magnet
- Large display of parameters

OUTPUT OPTIONS

- 1G421: 4-20mA
- 1G201: 0-1mA

APPLICATIONS

- Environmental monitoring
- Fire detection

1G421/1G201 SENSOR RANGE

STANDARD GAS OPTIONS

CO (Carbon monoxide)

- 0 - 200ppm
- 0 - 1000ppm
- 0 - 1%
- 0 - 4%
- 0 - 10%

NON STANDARD GAS OPTIONS

SO₂ (Sulphur dioxide)

- 0 - 100ppm

NO₂ (Nitrogen dioxide)

- 0 - 20ppm

Combustible Gas

- 0 - 100%LEL

OTHER FEATURES

- Digital field calibration (Zero and Span) saved to non-volatile memory.
- Output monitoring of 4-20mA or 0-1mA signals.

ELECTRICAL SPECIFICATIONS

Supply

- 12 – 30VDC
- Max. 60mA DC @ 24V supply

MECHANICAL SPECIFICATIONS

Physical Dimensions of Unit

Main enclosure: 190L x 190W x 120H mm
(Incl. Mounting Bracket)

Material

Main enclosure: PC Bayblend

Installation method

Supplied with stainless steel mounting brackets.

ENVIRONMENTAL SPECIFICATIONS

Environmental Conditions

Water and Dust: IP 65 protection standard
(water and dust sealed)

Temperature

Operating: -10 °C to +50 °C

CERTIFICATION

Ex Protection: Ex ia I, to be used with suitably Ex rated power supply. Not applicable for local alarm option.

FOR MORE INFORMATION:

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