

INFRARED CO₂ SENSOR FOR HEAVY DUTY AND INDUSTRIAL APPLICATIONS



Infrared CO₂ gas measuring system

Part Numbers:

2112B9000 or 2112B9050

CO₂ GAS MEASURING SYSTEM – SPECIFICATION –

Principle: Two beam infrared

Range: **Variant 1 – ppm ranges**

Part No: 2112B9000

standard: 0 – 3,000 ppm

optional: 0 – 5,000 ppm

optional: 0 – 6,000 ppm

optional: 0 – 10,000 ppm

optional: 0 – 20,000 ppm

optional: 0 – 30,000 ppm

Variant 2 – volume ranges

Part No: 2112B9050

standard: 0 – 5 % volume

Other ranges on request

Accuracy: +/- 2% f.s.d.

Reproducibility: +/- 1% f.s.d.

Response time: approximately 30 sec

Gas entry: by diffusion

Operating voltage: 24 V d.c. +/- 5%

Output signal: 4-20 mA or 0.1-10 V *(please advise output required at time of order)*

Operating temperature: -10°C up to +50°C

Operating pressure: 900 - 1100 hPa

Operating humidity: 15 – 95% rel.

Housing material: Aluminium housing, suitable for wall mounting

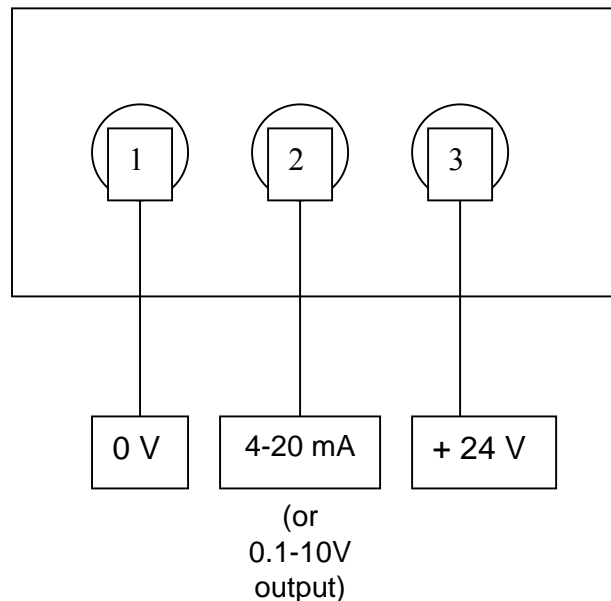
Dimensions: 90 x 85 x 65 mm (L x W x H)

Weight: 560g

IP rating of housing: IP65 (IP40 at drilling points)



Terminal diagram OEM Infrared CO₂ Sensors



For the connection between the infrared sensor and Controller, a four wire screened cable with a total loop resistance of max. 100 Ω should be used. Terminal 1 and 3 is used for power supply 24 V d.c. The measuring signal 4-20 mA or 0.1-10V is available at terminal 2.

The data contained in this document is believed to be accurate and reliable. The data given is for guidance only. Euro-Gas Management Services Ltd accepts no liability for any consequential losses, injury or damage resulting from the use of this datasheet or the information contained in it. Customers should test the sensors under their own conditions to ensure that the sensors are suitable for their own requirements and in accordance with the plans and circumstances of the specific project and any standards/regulations pertaining to the country in which the sensors will be utilised. This datasheet is not intended to form the basis of a contract and in the interest of product improvement, Euro-Gas reserves the right to alter design features and specifications without notice. 03/14

