**INFRARED CO₂ SENSOR FOR HEAVY DUTY AND INDUSTRIAL APPLICATIONS**

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**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
  - Other ranges on request

- **Variant 2 – volume ranges**
  - Part No: 2112B9050
    - standard: 0 – 5 % volume

**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)

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Infrared CO₂ gas measuring system
Part Numbers: 2112B9000 or 2112B9050

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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.