



### Features & Benefits

- Robust sensor enclosure
- Easy installation with LED indication, test button and auto output mode detection (3-wire)
- Pluggable terminal blocks and tool free installation
- Energy saving by ventilating at the optimum CO2 levels

### Technical Overview

Using a NDIR (non-dispersive infrared) sensor for measuring CO2 concentrations and utilizing ABC (Automatic Baseline Correction) ensures accurate and maintenance free operation. They are also fitted with a IAQ temperature outputs. A valuable feature of this sensor is, when in 3-wire mode, it automatically detects the controller input type, 4-20mA or 0-10Vdc. This removes the requirement for output jumpers. It also provides on-board LED indication for power up status and set output mode. The terminal blocks are pluggable and allow tool free installation (ferrules required).

### Specification

|                                   |                                           |
|-----------------------------------|-------------------------------------------|
| Active outputs                    | 0-10Vdc or 4-20mA (3-wire) self detecting |
| CO <sub>2</sub> accuracy          | 400-2000ppm $\pm 70\text{ppm} \pm 3\%$    |
| CO <sub>2</sub> Output ranges     | 0-2000ppm                                 |
| Environmental Housing             | 0 to 50°C, 0 to 90% RH non-condensing     |
| Gross Weight (kg)                 | 0.12                                      |
| Housing Dimensions                | 115 x 85 x 30mm                           |
| Housing Material                  | ABS (flame retardant)                     |
| Optional passive output           | PTC/NTC Element Any Sontay resistive type |
| Optional RHT                      | 0 to 100%RH                               |
| Override optional passive outputs | VFC                                       |
| Power Supply                      | 24Vac/dc $\pm 10\%$                       |
| Protection                        | IP30                                      |
| Setpoint optional passive outputs | 11-1 $\Omega$ /0-10 $\Omega$ linear       |
| Temperature Output range          | 0 to 40°C                                 |
| Weight                            | 200g                                      |

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|-------------------------------|-------------------------------------------|
| CO <sub>2</sub> Output ranges | 0-2000ppm                                 |
| Weight                        | 200g                                      |
| Housing Material              | ABS (flame retardant)                     |
| Active outputs                | 0-10Vdc or 4-20mA (3-wire) self detecting |
| Temperature Output range      | 0 to 40°C                                 |
| Power Supply                  | 24Vac/dc ±10%                             |
| Co <sub>2</sub> accuracy      | 400-2000ppm ±70ppm±3%                     |

## Related Product Codes

|              |                                                      |
|--------------|------------------------------------------------------|
| GS-CO2-AQ-S  | Space Mounted CO2, Air Quality and Temp Sensor       |
| GS-CO2-RHT-S | Space Mounted CO2, T and RH Sensor 2000ppm           |
| GS-CO2-S     | Space Mounted CO2 and T Sensor 2000ppm               |
| -5V          | Space Mounted CO2 and T Sensor 2000ppm 5V            |
| -BLK         | Space Mounted CO2 and T Sensor 2000ppm Black         |
| -HR          | Space Mounted CO2 and T Sensor 5000ppm               |
| -LCD         | Space Mounted CO2 and T Sensor 0-2000ppm LCD         |
| -LED         | Space Mounted CO2 and T Sensor 2000ppm LED           |
| -MS          | Space mounted CO <sub>2</sub> and T sensor 0-2000ppm |
| -SP          | Space Mounted CO2, T Sensor 2000ppm SP               |
| -T           | Space mounted CO <sub>2</sub> and T sensor 0-2000ppm |