

EMAIL: sales@co2meter.com | www.co2meter.com



Datasheet: C100 Sensor

The C100 is a high performance, general-purpose CO2 sensor. It has analogue and digital electronic interface options that provide a temperature compensated and linearized CO2 measurement over a wide sensing range from 0 to 200ppm, which can be customized to suit specific customer product requirements.

The C100 is used in a wide range of applications – processing industries, agriculture, rebreathers, laboratory and incubators, education, landfill monitoring, portable equipment, personal gas sensors and many more.



Technology

The GSS C100 sensor uses proven non-dispersive (NDIR) LED technology to detect and monitor the presence of carbon dioxide gas from 0 to 2% volume. The patented technology utilizes unique III-V solid state light emitting diodes and photodiodes, replacing high cost incandescent light sources and pyroelectric detectors used in standard NDIR sensors.

Features

Real time sensing

Low power consumption - typically 100mW

(Spec dependent)

High poison resistance & long term stability

Various voltages available from 3.3v to 5.5v

20mm package

Benefits

Wide range of applications

Low cost High accuracy

Fully linearized temperature compensated output.

Low power consumption, suitable for battery and portable applications

Applications

Modified Atmospheres

Indoor Air Quality

Stowaway Detection

Cellar & Gas Stores

Boats (Engine and Galley)

Greenhouses

Land Fill Gas

Confined Spaces

Refrigeration Plant

Domestic Boilers

Automotive

Mining

Tunnels

Combustion Control

In Vehicle Drowsiness

Classroom Monitoring

Incubators (Poultry)

Shipping Containers

Aircraft Atmospheres

Atmospheric Research

Diving Gas & Equipment

Cryogenics

Industrial Plant Rooms

Ventilation Management

Car Parks





EMAIL: sales@co2meter.com | www.co2meter.com

C100 Digital Connections

0V Zero Volts Power supply

Rx Serial Receive Line

Tx Serial Transmit Line

5V 5V Power Supply



Technical Specifications

General Performance

CO₂ Measurement

Electrical/Mechanical

Temperature Measurement 4

Note 1: Measure at STP.

Note 2: External Pressure calibration required. **Note 3:** User Configurable Filter Response.

Note 4: Temp measurement is for indication only Non calibrated.