

# pSense-Plus

## Handheld CO<sub>2</sub>, Temp, RH% Monitor

Ideal for indoor air quality (IAQ) diagnosis, the AQ-Sense measures CO<sub>2</sub> levels, air temp., dew point, wet bulb temp. and humidity. The portable CO<sub>2</sub> meter uses a NDIR (non-dispersive infrared) sensor to ensure reliability and long term stability.

The unit can be used for verifying CO<sub>2</sub> levels for HVAC system performance, air ventilation control, in offices, schools or greenhouses. The optional data logger kit perfect for students, scientists, researchers, or anyone who needs to record CO<sub>2</sub> levels over time.



## Features

- Non-Dispersive Infrared Sensor for (CO<sub>2</sub>) Carbon Dioxide Measurements
- CO<sub>2</sub> Readings in Parts-Per-Million (ppm) Temperature & RH% on Large LCD
- Displays TWA (8hours) STEL (15 minutes)
- Min, Max and Average Values
- Automatic Self-Diagnostic Function
- ~80dB Adjustable Audible Alarm
- Calibration with Fresh Air
- Data output RS232  
(for use with optional data logging kit)

## Applications

The pSense-Plus portable unit will operate for more than 24 hours on batteries.

The pSense is ideal for measuring carbon dioxide concentration in:

- Indoor Quality (IAQ)
- Classrooms
- Hospitals
- Greenhouses
- Incubators
- CO<sub>2</sub> Storage

# pSense-Plus (CO<sub>2</sub>, Temp & RH%)

## Technical Data

### Carbon Dioxide (CO<sub>2</sub>) Sensor

CO<sub>2</sub> Sensor Principle..... Non-dispersive infrared (NDIR)  
Sampling Mode..... Diffusion  
Sensor Life Expectancy..... > 15 years

### Measurement Range

Carbon Dioxide (CO<sub>2</sub>) ..... 0-9999 ppm (2001-9999 ppm over range)  
Temperature ..... 14~140°F (-10~60°C)  
Relative Humidity ..... 0.1%~99.9%RH

### Accuracy

Carbon Dioxide (CO<sub>2</sub>)..... +/- 30ppm for pSense High Accuracy, +/-75ppm for pSense  
Temperature ..... ±0.9°F (0.6°C)  
Relative Humidity ..... ±3%RH (at 25C 10~90%RH) ±5%RH (at 25C others)

### Response Time

Carbon Dioxide (CO<sub>2</sub>)..... <30 seconds (90% step change)  
Temperature Air ..... <2 minutes (90% step change)  
Relative Humidity ..... <10 minutes (90% step change)

### Data Output

Digital Interface RS232..... Special Cable  
PC software..... Windows XP or greater (software and cable sold as Data Logging option)

### Electrical:

Internal Battery..... 4 "AA" Alkaline batteries - 24 hours capacity (included)  
External supply..... Plug in transformer (included with Data Logging option or available separate)

### General:

Warm-Up Time..... 30 Seconds  
Numerical LCD..... 1.02X1.73" (26X44mm)  
Alarm Sound Level..... ~80 dB  
Compliance with ..... EMC Directive 89/336/EEC  
Operating Condition ..... 32~122°F (0~+50°C), 0~ 95%RH (avoid condensation)  
Storage Condition ..... -4~140°F (-20 ~ +60C), 0~95%RH (avoid condensation)  
Calibration ..... Manual calibration with fresh air (380~420ppm CO<sub>2</sub>)  
Unit Size (LxWxH)..... 8.24x2.75x2.27" (209.4x70x57.7mm)  
Unit Weight..... ~7.05oz (~200g) battery excluded  
Unit Housing Material ..... ABS/PC blend

