

pSense-Plus

Handheld CO₂, Temp, RH% Monitor

Ideal for indoor air quality (IAQ) diagnosis, the AQ-Sense measures CO₂ levels, air temp., dew point, wet bulb temp. and humidity. The portable CO₂ meter uses a NDIR (non-dispersive infrared) sensor to ensure reliability and long term stability.

The unit can be used for verifying CO₂ 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 CO₂ levels over time.



Authorized Distributor:
GasDetectorsUSA.com
Houston, TX USA
832-615-3588
sales@GasDetectorsUSA.com

Features

- Non-Dispersive Infrared Sensor for (CO₂) Carbon Dioxide Measurements
- CO₂ 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
- CO₂ Storage

pSense-Plus (CO₂, Temp & RH%)

Technical Data

Carbon Dioxide (CO₂) Sensor

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

Measurement Range

Carbon Dioxide (CO ₂)	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 ₂).....	±50ppm or ± 5% of reading (0-2000ppm) higher range not specified
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 ₂).....	<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 ₂)
Unit Size (LxWxH).....	8.24x2.75x2.27" (209.4x70x57.7mm)
Unit Weight.....	~7.05oz (~200g) battery excluded
Unit Housing Material	ABS/PC blend