

Model pSENSE - RH Portable Carbon Dioxide Instrument

New!

PRODUCT DESCRIPTION

Model **pSENSE** is a very flexible and easy to use hand-held, instrument designed to measure the carbon dioxide concentration, temperature and humidity in surrounding air.

The large illuminated display presents the 3 values simultaneously, as well optional Air/Wet and Bulb temp by selection.

Built-in data output (RS232) makes it simple to log data for longer time. Audible alarm, Max/Min Average as well as TWA and STEL measurements are possible.

The carbon dioxide sensor's gold-plated infra-red waveguide and diffusion membrane filter provides you great reliability, accuracy and long-term stability.



FEATURES

- State-of-the-art non-dispersive infrared (NDIR) technology to measure carbon dioxide gas in parts-per-million (ppm)
- Data output RS232
- Displays the current carbon dioxide temperature and RH% on a large LCD
- Displays TWA (8hours) STEL (15 minutes)
 Min, Max and average values
- Internal automatic self-diagnostic function
- Audible alarm
- Easy to calibrate

APPLICATIONS

With a battery capacity covering more than 24 hours, the instrument works perfectly for diagnosing ventilation using carbon dioxide as the surrogate ventilation index.

The instrument works perfect for measuring the indoor air quality parameters CO₂, Temp and RH%. Carbon dioxide has been acknowledged as a good indicator that adequate "fresh" outside air is being supplied to the occupants for acceptable indoor air quality. Adequate ventilation reduces temporary sickness, downtime and lost productivity.

The *pSENSE* is also ideal for measuring carbon dioxide concentration in *incubators*, *greenhouses*, *mushroom farms*, *etc.*, where correct levels are essential for the process outcome.



pSENSE Technical specification*

/	leasurement	
	Operating Pring	_

..... others ± 5 % for other RH ranges

Response time...... about 30 seconds

Alarm sound level 80 dB

Storage condition -20° ~ +60°C

Power supply AA type (UM-3) x 4 pcs

Battery life..... > 10 hours

Standard packing includes Meter, manual, batteries and hard carrying case

RS232 software with D-sub connector VZRS232M

Pressure Dependence + 1.6 % reading increase per kPa deviation from normal pressure

Calibration Manual calibration with fresh air

Numerical Liquid Crystal Display Simultaneous display of

* CO₂ concentration (in ppm.)

* temperature

RH %

Temperature

Temp. range	10 ° C ~ +60 ° C
RH range	
DP (Dew Point Temperature)	
WB (Wet bulb Temperature)	– 13.3 ° C ~ +60 ° C
Measurement Range	
Accuracy	±0,5° C

Data Output

Digital Interface RS232	Special cable
PC software	Windows 95/98/NT/ME/2000/XP Software and cable sold as option

Electrical:

External supply	Plug in transformer
Internal Battery	4 pcs AA batteries 24 hours capacity

General Performance:

Compliance with	EMC Directive 89/336/EEC
Storage Temperature Range	
Operating Temperature Range	0° to +50° C
Operating Humidity Range	0° to 95 % RH (non Condensing)
Size	209.4L*70W*57.7H (mm)
Weight	
Sensor Life Expectancy	> 15 years
Power-up Time	
Housing Material	





