Now with REAL TIME CLOCK

Model SenseAir®Portable Carbon Dioxide Instrument



PRODUCT DESCRIPTION

Model *SenseAir* [®] is a very light-weight (135 g) hand-held, pocket-sized (125x52x32 mm) instrument designed to measure the carbon dioxide concentration and temperature in surrounding air.

The integrated large, clear display presents the current carbon dioxide concentration and temperature.

Built-in data logger makes *SenseAir* [®] the perfect choice for monitoring the carbon dioxide concentration in a number of different applications and environments.

The carbon dioxide sensor's gold-plated infrared waveguide and diffusion membrane filter provides you great reliability, accuracy and longterm stability.



The outer dimensions (125x52x32 mm) make SenseAir® a unique portable gas monitor.

FEATURES

- State-of-the-art non-dispersive infrared (NDIR) technology to measure carbon dioxide gas in parts-per-million (ppm)
- Built in logger function with RTC (real time clock), supported by the free software UIP-P
- Displays the current carbon dioxide concentration and temperature on a large, clear, built-in LCD
- Displays the carbon dioxide level on a green-yellow-red 5 step LED bar graph
- Internal automatic self-diagnostic function
- Pocket-sized 125 x 52 x 32 mm
- Extremely light 135 grams
- Easy to use just one button
- Can be customized with application set files, ie to display ventilation rate in l/s/person (or in US units)

APPLICATIONS

With a battery capacity covering more than 12 hours, its small size (125x52x32 mm) and a total weight of only 135 grams, the *SenseAir* [®] pocket-sized carbon dioxide instrument works perfectly for diagnosing ventilation using carbon dioxide as the surrogate ventilation index. 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 **SenseAir** [®] is also ideal for measuring carbon dioxide concentration in *incubators*, *greenhouses*, *mushroom farms*, *etc.*, where correct levels are essential for the process outcome.



Technical specification for the portable SenseAir® (rev 0504)

Measurement

Operating Principle......Non-dispersive infrared (NDIR) with gold plated optical cell Gas Sampling Mode......Diffusion Response Time (1/e)......2 min diffusion time & 15 sec at 0.2 litre/min gas flow

Measurement Range.....0-6000 ppm

Accuracy at NTP (+25° C)......±3 % of reading or ±20 ppm, whichever is greater

Automatic Background Calibration......Automatic Background Calibration with fresh air

Can be done together with charging during the night.

Numerical Liquid Crystal DisplaySimultaneous display of

- * the current CO₂ concentration (in ppm.)
- * temperature
- battery status indication
- sensor status indication
- * ventilation rate (user configuration)

Temperature

Operating Principle.....Termistor Measurement Range...... 0-50° C

hangs in the safety strap)

Logger and software

Digital InterfaceUSB cable with sensor UART-RS232 com driver Internal Data Logger with RTC.....Logging of CO2 and temperature by 896 samples each. Logger resets in Off Mode. Real Time Clock.

PC softwareWindows 95/98/NT/ME/2000/XP compatible software UIP-P to:

- * define personal user preferences
- * support sensor calibration
- * transfer and save logged data
- * view trend curves of logged data

Electrical:

Battery Current Consumption.....< 55 mA in normal mode

General Performance:

Compliance with......EMC Directive 89/336/EEC Storage Temperature Range-20° to +70° C Operating Temperature Range0° to +50° C Operating Humidity Range......0 to 95 % RH (non Condensing) Sensor Life Expectancy> 15 years Battery Life Expectancy> 3 years Status IndicatorLCD triangle ikon = maintenance call Power-up Time< 30 sec. (full specs < 15 minutes) Housing Material......ABS/PC blend Dimensions (L x W x D)125 x 52 x 32 mm Total Weight135 g

Accessories:

Included in original purchase: monitor with internal battery. protective casing, communication cable, wall-plug battery charger

Optional accessories:	art.no.
Extra PC communication cable	A232-0740
Battery charger for use in cars (12V)	A-0741-charger
Extra wall-plug battery charger	A-0740-charger
Replacement battery	1PSC340848-1350
Extra protection casing	0741-bag



