

Model *SenseAir*TM Alarm

portable carbon dioxide alarm unit

PRODUCT DESCRIPTION

Model *SenseAir*TM Alarm is a very light-weight hand-held, pocket-sized alarm instrument with a digital display designed to measure the carbon dioxide concentration in surrounding air.

The large, clear display presents both current carbon dioxide concentration and the 8 hours Time Weighted Average (TWA) carbon dioxide value.

The carbon dioxide sensor's gold-plated infra-red waveguide and diffusion membrane filter provide you with great reliability, accuracy and long-term stability. Built-in data logging and alarm functions make *SenseAir*TM Alarm the perfect choice for personal safety applications



FEATURES

- State-of-the-art non-dispersive infrared (NDIR) technology to measure carbon dioxide gas in volume percent
- Displays both current carbon dioxide concentration and the 8 hour TWA carbon dioxide value on large, clear, built-in LCD
- Displays hazard levels on a clear green-yellow-red 5 step LED bar graph.

Internal audible alarm.

Internal automatic self-diagnostic function.

- Over 12 hours of continuous operation with internal, rechargeable Li-Ion battery.
- Pocket-sized - extremely handy and light-weight.
- Built in logger function with RTC (real time clock), supported by the free software UIP-P

APPLICATIONS

With a battery capacity covering more than 12 hours, its small size (125 x 52 x 32 mm) and a total *SenseAir*TM Alarm pocket-sized carbon dioxide instrument works perfectly as a personal safety alarm unit in hazardous environments, wherever carbon dioxide is produced, stored, generated and / or used.

The LED indicators in the green/yellow/red bar graph give a quick overview of the current carbon dioxide level and the 80 dB audible alarm calls for prompt attention when the short-term exposure safety limit is exceeded.

Due to the built-in logger function, the 8 hour long-term TWA (Time Weighted Average) exposure is also monitored to check against the labour regulations hygienic exposure limit standard. Together with a communication cable (accessory) and the user interface program UIP-P (freeware), it is possible to download and work with the samples during the logged period.

Portable SenseAir Alarm™ Technical Specification (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.....	0-3 % vol.
Extended Range.....	3-10 % vol. (accuracy not specified)
Accuracy at NTP (+25° C).....	± 3 % of reading or ± 0.02 % vol., whichever is greater
Pressure Dependence.....	+ 1.6% reading increase per kPa deviation from normal pressure
Temperature Dependence.....	≤ 0.005 % vol. / °C at zero gas level ≤ 0.015 % vol. / °C at 3 % vol. CO ₂
Time Weighted Average (TWA) calculation.....	8 h time span (most recent) with 4 min sample period Reset can be selected during unit turn-on sequence

Alarm / Measurement Interface:

LEDs.....	5 step "bar graph" green-green-yellow-yellow-red LEDs with trip points defined by the present CO ₂ concentration and preset comparator levels.
Numerical Liquid Crystal Display.....	Simultaneous display of <ul style="list-style-type: none">* the current CO₂ concentration (in % vol.)* the 8 h CO₂ TWA value (in % vol.)* battery status indication* sensor status indication
Audible horn.....	Transducer with 2kHz resonance frequency, sounding during alarm status until push-button acknowledgement is pressed
Push-button.....	a single multi-purpose push-button
Internal Data Logger with RTC (Real Time Clock)....	The latest 8 hours' TWA (Time Weighted Average) value of recorded CO ₂ concentration data is shown on the display. Logged samples can be downloaded together with communication cable (accessory) and free software UIP-P.
Digital Interface.....	USB cable with UART-RS232 com driver
PC software.....	UIP-P Windows 95/98/NT/ME/2000/XP compatible software to <ul style="list-style-type: none">* transfer and save logger data* configure Alarm Status and LED trip point levels* define user preferences* support sensor calibration

Electrical:

Battery Charger Input.....	6 VDC / 700 mAh, with NOKIA type miniature connector
Internal Battery.....	3,6 VDC / 1350 mAh Li-ion accumulator (> 12 h. capacity)
Battery Current Consumption.....	< 55 mA in normal mode < 100 mA in alarm mode

General Performance:

Compliance with.....	EMC Directive 89/336/EEC
Storage Temperature Range.....	-20° to +70° C
Operating Temperature Range.....	0° to +50° C
Operating Humidity Range.....	0 to 95 % RH (non Condensing)
Sensor Life Expectancy.....	> 15 years
Battery Life Expectancy.....	> 3 years
Self-diagnostics.....	complete power/sensor/ internal checks
Housing material.....	ABS/PC
Dimensions (L x B x D).....	125 x 52 x 32 mm

Accessories:

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

<u>Optional accessories:</u>	<u>art.no.</u>
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



* Can be changed without notice
PATENDED

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