<u> * SenseAir</u>



Model *SenseAir*[®] Alarm Portable Carbon Dioxide Alarm Unit

PRODUCT DESCRIPTION

Model *SenseAir*[®]*Alarm* is a very lightweight 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®Alarm** the perfect choice for personal safety applications



The outer dimensions of 125x52x32 mm make *SenseAir*[®] Alarm a unique portable alarm unit

FEATURES

- State-of-the-art non-dispersive infrared (NDIR) technology to measure carbon dioxide gas in volume percent and parts-per million (ppm)
- 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 greenyellow-red 5 step LED bar graph.
- Internal audible alarm.
- Internal automatic self-diagnostic function.
- Over 12 hours of continuous operation with internal, rechargeable Li-lon 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 weight of only 135 grams, the *SenseAir®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.

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Technical specification for the portable SenseAir[®] Alarm (rev. 0504)

Aeasurement:	Non-dispersive infrared (NDID) with gold plated activation
	Non-dispersive infrared (NDIR) with gold plated optical cell
Gas Sampling Mode	2 min diffusion time & 15 sec at 0.2 litre/min gas flow
Measurement Range	
Extended Range	
Accuracy at NTP (+25° C)	± 3 % of reading or ± 0.02 % vol., whichever is greater + 1.6% reading increase per kPa deviation from normal pressure
Temperature Dependence	
	\leq 0.015 % vol. / °C at 3 % vol. CO ² 8 h time span (most recent) with 4 min sample period
Time weighted Average (TWA) calculation	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
	* the current CO ₂ concentration (in % vol.)
	* the 8 h CO ₂ TWA value (in % vol.)
	* battery status indication
	 * sensor status indication
	Transducer with 2kHz resonance frequency,
	sounding during alarm status until push-button acknowledgement is
	pressed
Push-button	a single multi-purpose push-button
(Real Time Clock)	concentration data is shown on the display. Logged samples can be downloaded together with communication cable (accessory) and free software
Divited Interfere	UIP-P.
Digital Interface	
PC software	UIP-P Windows 95/98/NT/ME/2000/XP compatible software to
	 transfer and save logger data application of the same status and the provide the same status and the provide status and the same status and
	 configure Alarm Status and LED trip point levels define user preferences
	* support sensor calibration
Flootrical	support sensor calibration
Electrical:	
Internal Battery	
Battery Current Consumption	
	< 100 mA in alarm mode
General Performance:	
Compliance with	
Storage Temperature Range	
Operating Temperature Range	
Operating Humidity Range	
Sensor Life Expectancy	
Battery Life Expectancy	
Self-diagnostics	
Housing material	
Dimensions (L x B x D)	125 x 52 x 32 mm
Accessories:	
Included in original purchase: monitor with inte protective casing, communication cable, wall-p	
Optional accessories:	art no
	en la
PC communication cable	
Battery charger for use in cars (12V)	
	A-0740-charger
Extra wall-plug battery charger	
Extra wall-plug battery charger Replacement battery Extra protection casing	

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Made in Sweden