

SenseAir[®]
develops and produces affordable
precision carbon dioxide sensors
for high volume applications i.e. in:

- Automotive – refrigerant leakage control, plus HVAC fresh air supply demand sensing
- Global environmental surveillance – ground and atmospheric CO₂ sensing
- Household appliances (kitchen fans, kitchen ranges)
- Healthcare, sports & leisure



SenseAir[®]
CO₂ sensors are also used in:

- Ventilation control for good indoor climate and energy savings
- Process yield and economic outcome in many bio-related processes, such as in greenhouses, mushroom farming, food transportation/storage, chicken hatcheries, incubators, dairying....
- Personal safety in i.e. garages, tunnels, loading docks, public bars and restaurants, when using burners and kerosene heaters
- Medicine / respiration supervision



aSENSE™ Product Family

The aSENSE™ product family consists of *flexible transmitters, controllers and advanced controllers*, which can be varied and customized in numerous ways. They are all available in different housings; standard or industrial wall mounting, wall or duct mounting, with or without display. The sensors included in all the aSENSE™ products measure carbon dioxide and temperature, they can be programmed for LonWorks™ and Modbus interface for network. Other accessories belonging to the product family are, for example, communication cable (RS232), coated PCB and an integrated logger.

aSENSE™ transmitter

The standard aSENSE™ is a *transmitter* for installation in a climate zone or in a ventilation duct. It measures carbon dioxide and temperature, transforms the data into digital output signals and sends these values to a host/management system. The aSENSE™ is a key component for climate control of buildings and other processes. It is also a cost-efficient alarm sensor in spaces where carbon dioxide gas is a potential danger.



aSENSE™ for wall mounting



aSENSE™ for duct mounting in housing IP65 and industrial wall mounting IP 54

aSENSE™ VAV

is a microprocessor based *controller* with built-in sensors for installation in climate zones or in ventilation ducts. It measures both carbon dioxide and temperature. An integrated humidity sensor can be added. It transforms the data into analogue and digital output signals used for controlling the indoor climate on demand. The aSENSE™ -VAV is a key component for energy-efficient and healthy climate control in rooms with varying occupancy. The aSENSE™ -VAV is equipped with push buttons, for individual adjustment of set points.



aSENSE VAV

aSENSE™ mIII

is a controller with built-in sensors for simultaneous monitoring of carbon dioxide and carbon monoxide. With these parameters, the programmable unit can control for example ventilation rates, and generate alarm signals for personal safety devices. aSENSE™ mIII is designed for both stand-alone operation, as well as being connected to larger building automation systems. aSENSE™ mIII is the perfect choice for vehicle garages and tunnel ventilation control.



aSENSE™ mIII for duct mounting in housing IP65 and industrial wall mounting IP 54

eSENSE™ Product Family

The eSENSE™ product family is an extremely cost-optimized sensor solution for climate control of buildings and processes where measured carbon dioxide values in voltage format are requested. eSENSE™ is intended for installation in a climate zone or in a ventilation duct. eSENSE™ measures the carbon dioxide concentration in the ambient air up to 2 000 ppm and transforms the data into an analogue output signal. The different housing options makes the eSENSE™ available to almost any application or environment. eSENSE™ -Tr is prepared for quick mounting of a complementary passive temperature element, which can easily be done by the customer. eSENSE™ II has a housing that fits directly on top of EU and US electrical junction box standards. You can also get eSENSE™ in an allround housing (IP50).



eSENSE™ for wall mounting



eSENSE™ II



*eSENSE™ duct housing IP65
and allround housing IP50*

SenseAir® Product Family - Portable Products

The SenseAir™ product family contains two portable sensors; SenseAir™ and SenseAir Alarm. These sensors are light, have a large, clear display and are easy to use. They have built-in logger function with real time clock and are the perfect choice for monitoring carbon dioxide and temperature in various situations and environments.



SenseAir®



SenseAir® Alarm

CO₂Engine® Product Family

CO₂ Engine® introduced in 2003, constitutes an example of SenseAir's new direction of development, which is: extremely cost optimized sensors tailored for high volume built-in applications in a variety of different kinds of consumer oriented products.

CO₂ Engine® is a low cost, infrared and maintenance-free transmitter module intended to be built into different host devices that require CO₂ monitoring data. Depending on model the products are available with different outputs such as on/off analogue or data output.

For a moderate start cost SenseAir AB will tailor CO₂ Engine® to meet your unique requests and exceed your expectations.



OEM - applications

SenseAir distributes some of the OEM- applications where SenseAir modules are incorporated. These are portable **pSENSE™** and **SenseLife Tim8™**.



pSENSE™

pSENSE™ - RH

pSENSE™ is a portable, low cost product. It is a flexible and easy to use, hand-held, instrument designed to measure the CO₂ concentration and temperature in surrounding air. **pSENSE™ - RH** also measures RH%.

SenseLife Tim 8™ is a personal indoor multi functional air quality monitor with alarm functions for CO₂, dew point and temperature. . Morning call alarm is included.



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