Product Catalogue 2015
Air and Gas Sensors

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Building automation where our sensors control individual fans, dampers, valves, etc. A common application is controlling ventilation in rooms with varying numbers of people such as offices, classrooms, and cinemas. The ventilation control is based on temperature, humidity and CO_2 measurements and helps to save energy and create a healthy indoor environment.

In today's health- and energy-conscious environment, measuring CO_2 is important for safety and comfort, energy savings and to warn about potentially toxic CO_2 and CO levels. *SenseAir®* offers a full line of products for this application in, for example, public garages, buildings, truck terminals, tunnels and mines.

CO_2 is necessary to all forms of life. It is a vital parameter in the production of all kinds of plant species, bacteria, poultry etc. CO_2 sensors can be used to increase process yield and efficiencies in many bio-related processes, such as in greenhouses, mushroom-farming, food transportation/storage, chicken hatcheries and incubators.

Our OEM modules are cost-optimized sensors for high volume applications intended to be integrated into our customers' own products. They can easily be adjusted to comply with differing customer requirements. The only restriction for what OEM modules can be used for is the creativity and inventiveness of the customer. We also offer low power solutions. For HVAC we have a solution only requiring 3,5 mW, and it can go even lower if used for other applications.

SenseAir 2014

Our story

This year we will take SenseAir® to the next level when it comes to products, services and new innovations.

SenseAir® is a Swedish company and a centre of excellence with over 20 years of experience in IR gas measurements. We develop and produce affordable precision gas sensors for high volume applications. Our products have traditionally measured carbon dioxide (CO_2), a multifunctional and natural gas that exists in the Earth's atmosphere. Since we exhale CO_2, and it can be dangerous in high concentrations while being colourless and odourless, good ventilation is required to reduce it to harmless levels.

Our CO_2 sensors are used in ventilation control for energy savings to enhance good indoor climate process yield and economic outcome in many bio-related processes, for personal safety applications, for built-in appliances and many other areas.

With over 20 years of experience *SenseAir®* has become a world leader in the field of NDIR (non-dispersive infra-red) technology. The measuring cell has been improved and is based on cost-effective production techniques in plastic. *SenseAir®* holds many patents relating to its proprietary measurement technique.

The sensors from *SenseAir®* are all pre-calibrated and have an estimated life expectancy of more than 15 years in normal applications. In order to maintain high quality, 100% of the sensors are tested to comply fully with all the different performance criteria set up, such as sensor stability and calibration accuracy within the allowed temperature and humidity range. The Automatic Baseline Correction assures that the sensors do not require any further calibration when used in normal indoor air applications. The sensor can also, if needed, be calibrated in the field with no need to returning it to a service centre.

The *SenseAir®* quality management system is certified for compliance with ISO 9001:2008. We offer full traceability on all the critical components through individual unit serial numbers and PCB manufacturing batch numbers. All test data from each shipped sensor is stored in a database and can be traced at any time.

For more information or special requests on non-traditional gases and applications; such as hydrocarbons, ammonia, refrigerants, nitrous oxide and similar, please contact us or visit our website at senseair.com

Join us on an exciting journey and together with you, we will make it a success.

Sincerely,
The SenseAir Team

Contact information

For more information about our products and services, you can reach us at the following contact information:

Headquarter and Production:

SenseAir® AB Europe
Stationsgatan 12
Box 96
820 60 Delsbo
Sweden

Phone: +46 (0) 653 71 77 70
E-mail: info@senseair.com
Web site: senseair.com

Vertretung in Österreich:

ECMK Process Solutions GmbH
1220 Wien · Bellegardegasse 23 Top 2
Tel +43 1 260 58 27 · office@ecmk.solutions
www.ecmk.solutions

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Sales offices:

SenseAir® North America Inc.
29030 SW Town Center Loop East
Suite 202 - #169
Wilsonville, OR 97070
USA

Phone: +1 (520) 349 7686
E-mail: infoamerica@senseair.com
Web site: senseair.com

SenseAir® North America Inc.
5851 Ridge Bend Rd.
Memphis, Tn 38120.

USA

Phone: +1 (901) 282 7204
E-mail: infoamerica@senseair.com
Web site: senseair.com

SenseAir® Asia
SenseAir® Chengdu Gas Sensors Co. Ltd
First floor of No.8, Xingke South Road
Jiniu High-tech, industrial park
Post code 610036, Chengdu
China

Phone: +86 (0) 28 87592885
E-mail: info@senseair.asia
Web site: senseair.asia

Ventilation Control

tSENSE™ Family

CO$_2$, Temp and RH Transmitter with colour touch display

tSENSE™ is an advanced and versatile 3-in-1 transmitter designed for installation in the air-conditioned zone. It measures CO$_2$ concentration, temperature and humidity in the ambient air accurately without need for additional compensation - true read. The data is transmitted to a BMS system, or stand-alone controller using industry standard output signals and communication protocols, such as BACNET.

tSENSE™ combines all the necessary elements for effective climate control in commercial office buildings, hospitals, hotels, schools and other facilities. Using CO$_2$ -monitoring for demand control ventilation (DCV) allows healthy, comfortable and cost-effective environment for the occupants. It is flexible in design with temperature control and combination of humidity control optional. Though suitable for use in many different energy-efficient ventilation strategies, *SenseAir*® welcomes any discussions for specific needs. The touch display can be configured with individual GUI for company logos and select settings.

Standard Configuration	*tSENSE (Disp)*
Measurement range:	0 to 2000 ppm
Power supply:	12 V DC, 24 V AC/DC
OUT1 CO$_2$:	0 to 10 V DC, 0 to 2000 ppm CO$_2$
OUT2 Temperature:	0 to 10 V DC, 0 to 50°C
OUT3 Relative Humidity:	0 to 10 V DC, 0 to 100% RH
Operation temperature:	0 to 50°C
Dimensions (H x W x D):	125 x 85 x 22 mm
Dimensions display (H x W x D):	49 x 37 mm
Accuracy (CO$_2$):	± 30 ppm ± 3 % of reading
Communication:	Modbus or BACnet protocol (UART)
Relay:	Yes
Product Number:	Please see page 22-23

Ventilation Control

eSENSE™ Family

CO$_2$ transmitter

eSENSE™ is a CO$_2$ transmitter for climate control and fits directly on top of European electrical junction box standards. The unit is available both with and without display for fixed installation in the climate zone. The transmitter helps you to save money by decreasing your energy consumption while creating a healthier indoor air climate.

eSENSE™ II is just as eSENSE™ a CO$_2$ transmitter for climate control. eSENSE II is adjusted to fit directly on top of US electrical junction box standards. The unit is available both with and without LCD display for fixed installation in the climate zone.

eSENSE™ Duct is an infrared and maintenance-free CO$_2$ transmitter, for climate control of buildings and other processes. eSENSE™ Duct is for installation in the ventilation duct.

Standard Configuration	eSENSE™	eSENSE™ II	eSENSE™ Duct
Measurement range:	0 to 2000 ppm	0 to 2000 ppm	0 to 2000 ppm
Power supply:	24 V AC/DC	24 V AC/DC	24 V AC/DC
OUT1 linear output:	0 to 10 V DC (CO$_2$)	0 to 10 V DC (CO$_2$)	0 to 10 V DC (CO$_2$)
OUT2 linear output:	2 to 10 V DC or 4 to 20 mA (CO$_2$)	2 to 10 V DC or 4 to 20 mA (CO$_2$)	2 to 10 V DC or 4 to 20 mA (CO$_2$)
Operation range:	0 to 50°C	0 to 50°C	0 to 50°C
Dimensions (H x W x D):	100 x 80 x 28 mm	130 x 85 x 30 mm	152 x 85 x 47 mm
Accuracy:	± 30 ppm ± 3 % of reading	± 30 ppm ± 3 % of reading	± 30 ppm ± 3 % of reading
Display:	Optional	Optional	Optional
Product Number:	Please see page 22-23	Please see page 22-23	Please see page 22-23

Ventilation Control

eSENSE™ Ind is an infrared and maintenance-free CO_2 transmitter, for climate control of buildings and other processes. *eSENSE™ Ind* is a wallmounted transmitter with protection class IP54 and it´s applicable in most large spaces and suits well for example in industry environment.

eSENSE™ Slim is used to measure indoor air carbon dioxide concentration. This product is an ultra-compact transmitter intended for factory mounting for both wall and duct applications with the protection class IP50. A 300 mm long cable connected to the PCB makes it possible to place the sensor where mounting is difficult.

eSENSE™ FAI "Fresh Air Indicator" is an infrared and maintenance-free carbon dioxide alarm for installation in areas where the carbon dioxide levels need to be monitored, such as classrooms and offices. The product measures the carbon dioxide concentration in ambient air and alarms with sound and light when the levels exceed defined levels.

eSENSE™ Ind	*eSENSE™ Slim*	*eSENSE™ FAI*
0 to 2000 ppm	0 to 2000 ppm	0 to 2000 ppm
24 V AC/DC	24 V AC/DC	24 V AC/DC
0 to 10 V DC (CO_2)	0 to 10 V DC (CO_2)	0 to 10 V DC (CO_2)
2 to 10 V DC or 4 - 20 mA (CO_2)	-	-
0 to 50°C	0 to 50°C	0 to 50°C
142 x 84 x 46 mm,	106 x 67 x 26 mm	100 x 80 x 28 mm
± 30 ppm ± 3 % of reading	± 30 ppm ± 3 % of reading	± 30 ppm ± 3 % of reading
Optional	No	Optional
Please see page 22-23	Please see page 22-23	Please see page 22-23

Ventilation Control

aSENSE™ Family

CO_2 and Temperature transmitters and Controllers

aSENSE™ is an advanced transmitter for installation in the climate zone. It measures both CO_2 concentration and temperature. The data is transmitted to a BMS system or controller and can be configured with UIP Software. The unit is prepared for Modbus.

aSENSE™ Duct is an infrared and maintenance-free carbon dioxide transmitter for installation in the ventilation duct. The unit has an industrial housing (protection class IP65) with duct probe. The unit is prepared for Modbus.

Standard Configuration	aSENSE™	aSENSE™ Duct
Measurement range:	0 to 2000 ppm (CO_2)	0 to 2000 ppm (CO_2)
Power supply:	24 V AC/DC	24 V AC/DC
OUT1 linear output:	0/2 to 10 V DC or 0/4 to 20 mA (CO_2)	0/2 to 10 V DC or 0/4-20 mA (CO_2)
OUT2 linear output:	0/2 to 10 V DC or 0/4 to 20 mA (°C)	0/2 to 10 V DC or 0/4 to 20 mA (°C)
OUT3 Relay:	-	-
OUT4 linear conversion:	-	-
Temperature measurement:	0 to 50°C	0 to 50°C
Operation temperature:	0 to 50°C	0 to 50°C
Dimensions (H x W x D):	120 x 82 x 30 mm	152 x 85 x 47 mm
Accuracy:	± 30 ppm ± 3 % of reading	± 30 ppm ± 3 % of reading
Accuracy CO:	-	-
Display:	Optional	Optional
Product Number:	Please see page 22-23	Please see page 22-23

Ventilation Control

aSENSE™ VAV is a stand alone controller that measures both CO_2 concentration and temperature in ambient air. It also has a terminal for extra functions for example manual override and it´s prepared for Modbus. The unit is a key component for energy-effective and healthy climate control of rooms with a varying number of people.

aSENSE™ VAV Duct is a stand alone controller with built-in sensors that measure CO_2 and temperature for installation in the ventilation duct. *aSENSE™ VAV Duct* has an industrial housing and it´s also prepared for Modbus.

aSENSE™ MIII Disp is a controller with built-in sensors to monitor carbon dioxide and carbon monoxide simultaneously. With these parameters, the programmable unit can control for example ventilation rates and generate alarm signals. The sensor can be configured with the UIP Software.

aSENSE™ VAV Disp	*aSENSE™ VAV Duct Disp*	*aSENSE™ MIII Disp*
0 to 2000 ppm (CO_2)	0 to 2000 ppm (CO_2)	0 to 2000 ppm (CO_2) 0 to 100 ppm (CO)
24 V AC/DC	24 V AC/DC	24 V AC/DC
0/2 to 10 V DC or 0/4 to 20 mA (CO_2), 600 to 900 ppm (CO_2), 23-24 (°C)	0/2 to 10 V DC or 0/4 to 20 mA (CO_2), 600 to 900 ppm (CO_2), 23-24 (°C)	0 to 10 V DC (CO)
0/2 to 10 V DC or 0/4 to 20 mA, 600 to 900 ppm	0/2 to 10 V DC, 600 to 900 ppm (CO_2)	0 to 10 V DC (CO_2)
Closed > 600 ppm, Open < 500 ppp (CO_2)	Closed > 600 ppm, Open < 500 ppp (CO_2)	Closed < 30 ppm CO < 1400 ppm CO_2 Open > 35 ppm CO > 1500 ppm CO_2
0 to 10 V DC or 0/4 to 20 mA, 20-18 °C	0 to 10 V DC or 0/4 to 20 mA, 20-18 °C	(Open collector) Error detection
0 to 50°C	0 to 50°C	-
0 to 50°C	0 to 50°C	0 to 50°C
120 x 82 x 30 mm	152 x 85 x 47 mm, probe 245 mm	142 x 84 x 46 mm
± 30 ppm ± 3 % of reading	± 30 ppm ± 3 % of reading	± 30 ppm ± 3 % of reading
-	-	± 10 ppm
Yes	Yes	Yes
Please see page 22-23	Please see page 22-23	Please see page 22-23

Safety Products

Safety Products

pSENSE™ Family

Portable CO_2 transmitter and Temperature

pSENSE™ is a flexible and easy to use hand-held instrument, designed to measure the CO_2 concentration and temperature in surrounding air. The model is also ideal for measuring CO_2 concentration in incubators, greenhouses, mushroom farms etc. where correct levels are essential for the process outcome. Audible alarm, Max/Min Average as well as TWA and STEL measurements are possible. With the pSENSE data cable accessory it is simple to log data for a longer period of time.

pSENSE™ *RH* works perfectly for measuring the indoor air quality parameters CO_2, temperature and RH%. Audible alarm, Max/Min Average as well as TWA and STEL measurements are possible. With a battery capacity covering more than 24 hours, the model works perfectly for diagnosing ventilation using carbon dioxide as the surrogate ventilation index. With the pSENSE data cable accessory it is simple to log data for a longer period of time.

pSENSE II™ is a hand-held datalogger that displays and records RH, temperature, CO_2 and calculated parameters such as dew point and wet-bulb temperature. It can be run in different modes aside displaying active measurement; such as MIN/MAX/AVG review mode and have multiple logging related modes. It offers specific configuration of audible alarm levels, pressure compensation, wide sampling rates for the on-board memory and allow simple re-calibration of CO2 and %RH. Through supplied USB cable, logs can easily be downloaded through the official software and extensively analysed on PC.

Product Release Q1 2015!

Standard Configuration	*pSENSE*™	*pSENSE*™ RH	*pSENSE*™ II
Measurement range CO_2:	0 to 2000 ppm	0 to 5000 ppm (extended 10 000 ppm)	0 to 9999 ppm
Accuracy:	± 75 ppm ± 5 % of reading at 0 to 2000 ppm	± 30 ppm ± 3 % of reading at 0 to 2000 ppm	± 30ppm +5% of reading at 0 to 5000 ppm
Power supply:	4 x AA type (UM-3)	4 x AA type (UM-3)	4 x AA (UM-3) re-chargable batteries
Audiable alarm:	Yes	Yes	Yes
Temperature measurement:	0 to 50°C	0 to 50°C	-20 to 60°C
Accuracy:	± 0.6°C, ± 0.9°F	± 0.6°C, ± 0.9°F	± 0.3°C
Humidity measurement:	0 ~ 95%	0 ~ 95%	0.1%-99.9%
Accuracy:	± 3% (10~95% at 25°C)	± 3% (10~95% at 25°C)	± 3% (10~95% at 25°C)
Operation temperature:	0 to 50°C	0 to 50°C	0 to 50°C
Dimensions (H x W x D):	209 x 70 x 58 mm	209 x 70 x 58	234 x 77 x 42
Display:	Yes	Yes	Yes
Product Number:	Please see page 22-23	Please see page 22-23	Please see page 22-23

Agriculture

Green House Family

CO$_2$ transmitter and Temperature

aSENSE™ GH "Green House" is a transmitter for installation in the climate zone. The special coated PCB and extra dust/water protection filter make aSENSE™ GH suited for all kinds of greenhouses, incubators and similar environments. The unit measures both temperature and carbon dioxide concentration.

Standard configuration	*aSENSE™ GH Disp*
Measurement range:	0 to 2000 ppm
Power supply:	24 V AC/DC
OUT1 Linear output:	0/2 to 10 V DC or 0/4 to 20 mA (CO$_2$),
OUT2 Linear output:	0/2 to 10 V DC or 0/4 to 20 mA (°C)
OUT3 Relay:	Closed < 900 ppm, Open > 1000 ppm (CO$_2$)
Operation temperature:	0 to 50°C
Dimensions (H x W x D):	142 x 84 x 46 mm
Accuracy:	± 30 ppm ± 3 % of reading
Display:	Yes
Product Number:	Please see page 22-23

OEM Products

OEM Products

CO_2 Engine® Family
OEM Modules

SenseAir® S8 Commercial is the ideal choice for indoor ventilation control and CO_2 monitoring in commercial HVAC applications. The sensor is based on modern infrared technology (NDIR) which meassures CO_2 levels with a very high accuracy. The SenseAir® S8 is designed for easy integration.

SenseAir® S8 Alarm is a miniature safety switch that can be used in control and alarm applications. The sensor can be integrated in a wide range of different alarm applications where you want to detect CO_2, such as leakage detection.

SenseAir® S8 Residential is the ideal choice for indoor ventilation control and CO_2 monitoring in residential applications. The sensor is based on modern infrared technology (NDIR). The SenseAir® S8 Residential is designed for easy integration.

Product Release
Q1 2015!

Standard Configuration	SenseAir® S8 Commercial	SenseAir® S8 Alarm	SenseAir® S8 Residential
Measurement range:	400 to 2000 ppm (0 to 10 000 ppm extended)	0.04 to 2% vol (CO_2)	400 to 2000 ppm (0 to 10 000 ppm extended)
Power supply:	4.5 V to 5.25 V DC	4.5 V to 5.25 V DC	4.5 V to 5.25 V DC
Alarm output (open collector):	Open > 1000 ppm, Closed < 800 ppm	Open > 8500 ppm, Closed < 6500 ppm	Open > 1000 ppm, Closed < 800 ppm
PWM output:	0 to 100 % duty cycle for 0 to 2000 ppm	0 to 2 % duty cycle for 0 to 20 000 ppm	0 to 100 % duty cycle for 0 to 2000 ppm
Communication:	UART (Modbus)	UART (Modbus)	UART (Modbus)
Operation temperature:	0 to 50°C	0 to 50°C	5 to 30°C
Dimensions (H x W x D):	8.5 x 33.5 x 20 mm	8.5 x 33.5 x 20 mm	8.5 x 33.5 x 20 mm
Accuracy:	± 30 ppm ± 3% of reading	± 0.02 %$_{vol}$ CO_2 ± 3% of reading	± 70 ppm ± 3% of reading
Product Number:	Please see page 22-23	Please see page 22-23	Please see page 22-23

OEM Products

SenseAir® S8 4B is a miniature low power LNE approved safety switch. SenseAir® S8 4B main application area is to serve as a CO_2 safety switch when built into equipment such as kerosene heaters and other equipment generating potential hazardous levels of CO_2 gas. Because of low current consumption the sensor is suitable for battery applications and has an average current consumption of 2 mA.

SenseAir® S8 LP is a a miniature low power CO_2 sensor module developed for applications where both energy consumption and accuracy are critical factors. With an average power consumption of 18 mA and an accuracy of ± 40 ppm and ± 3% of reading the SenseAir® S8 LP is the natural choise for developers who demands the best of two worlds.

Standard Configuration	SenseAir® S8 4B	SenseAir® S8 LP
Measurement range:	0.04 to 3.2% vol (CO_2)	400 to 2000 ppm (0 to 10 000 ppm extended)
Power supply:	4.5 to 7 V DC	4 V to 5.25 V DC
Alarm output (open collector):	Open > 8000 ppm, Closed < 6500 ppm	Open > 1000 ppm, Closed < 800 ppm
PWM output:	-	0 to 100 % duty cycle for 0 to 2000 ppm
Communication:	-	UART (Modbus)
Operation temperature:	0 to 50°C	0 to 50°C
Dimensions (H x W x D):	8.5 x 60.5 x 20 mm	8.5 x 33.5 x 20 mm
Accuracy:	± 1000 ppm (at alarm points between 7000 and 9000 ppm)	± 40 ppm ± 3% of reading
Product Number:	Please see page 22-23	Please see page 22-23

OEM Products

CO$_2$ Engine® K30 can be customized for a variety of sensing and control applications. This platform is designed to be an OEM module for built-in applications in a host apparatus. K30 is a flexible product with 2 analog outputs and 2 digital outputs that can be configured with SADK or other custom software to meet your requirement.

The CO$_2$ Engine® ICB platform can be customized for a variety of sensing, control and alarm applications. This platform is designed to be an OEM module for built-in applications in a host apparatus.

Standard Configuration	CO$_2$ Engine® K30	CO$_2$ Engine® ICB
Measurement range:	0 to 5000 ppm	0 to 30% $_{vol}$ (CO$_2$)
Power supply :	4.5 to 14.0 V DC	4.5 to 12.0 V DC
OUT1:	Linear output: 0 to 4 V DC, 0 to 2000 ppm	PWM: 0 to 20% $_{vol}$ (CO$_2$)
OUT2:	Linear output: 1 to 5 V DC, 0 to 2000 ppm	0 to 5 V DC, 0 to 20% $_{vol}$ (CO$_2$)
OUT3:	Linear output: High > 800 ppm, low < 700 ppm	-
OUT4:	Linear output: High > 1000 ppm, Low < 900 ppm	-
Communication:	I²C/UART (Modbus)	I²C/UART (Modbus)
Operation temperature:	0 to 50°C	0 to 50°C
Dimensions (H x W x D):	14 x 57 x 51 mm	14 x 57 x 51 mm
Power Consumtion:	< 40 mA	< 40 mA
Accuracy:	± 30 ppm ± 3 %	± 0,2% $_{vol}$ ± 3% of reading
Product Number:	Please see page 22-23	Please see page 22-23

OEM Products

CO_2 Engine® LP is a low-power module that fits in any application where power consumption is important to keep at a minimum without sacrificing performance. The adjustable measurement interval, results in average power consumption that can be reduced to less than 52 µA (measurement 1/60 min). The platform is designed for integration into host apparatus, such as battery operated products, sensors with radio transmitters. The module also measures temperature, and humidity is an option.

CO_2 Engine® BLG is designed to measure and store records of environmental parameters such as CO_2, RH and temperature. The sensor can be used in a wide range of applications; in food transportation, storage, incubators and other high concentration range applications.

CO_2 Engine® ELG is suitable for low power applications as the unit can be put into sleep-mode between measurements. The sensor measures and stores records of environmental parameters such as CO_2, RH and temperature.

| Standard Configuration	CO$_2$ Engine® LP	CO$_2$ Engine® BLG	CO$_2$ Engine® ELG
Measurement range:	0 to 5000 ppm	0 to 30% $_{vol}$ (CO$_2$) 0 to 100% (RH) -40 to 60 (°C)	0 to 5000 ppm (CO$_2$) 0 to 100% (RH) - 40 to 60 (°C)
Power supply:	5 to 12 V DC	4.5 to 12 V DC	4.5 to 12 V DC
Communication:	I²C/UART (Modbus)	I²C/UART (Modbus)	I²C/UART (Modbus)
Operation temperature:	0 to 50°C	0 to 50°C for CO$_2$	0 to 50°C for CO$_2$
Dimensions (H x W x D):	14 x 57 x 51 mm	14 x 57 x 51 mm	14 x 57 x 51 mm
Power Consumtion:	1.5 mA (30 sec measurement interval) 0.74 mA down to 3.5 mA (60 sec interval) 86 µA (15 min measurement interval) 52 µA (60 min measurement interval)	< 250 uA (60 min measurement interval)	< 250 uA (60 min measurement interval)
Accuracy:	± 30 ppm ± 3 %	± 0,2% $_{vol}$ ± 3% of reading	± 30 ppm ± 3% of reading
Product Number:	Please see page 22-23	Please see page 22-23	Please see page 22-23

SADK Family

SenseAir® Development Kit for modules

SADK is a configuration and test utility to assist you in your work with our SenseAir Engine® products and eSENSE (K50 platform). The program UIP 5 gives you access to the main features of the connected product. You also have the option to configure, log and test the possibilities of most of our engine products.

SADK S8™ is a configuration and test utility to assist you in your work with our SenseAir S8™ products. The program UIP 5 gives you access to the main features of the connected product. You also have the option to configure, log and test the possibilities of most of our S8™ products.

SADK S8™ *4B* is a configuration and test utility to assist you in your work with our SenseAir S8™ 4B product. The program UIP 5 gives you access to the main features of the connected product. You also have the option to configure, log and test the possibilities of the S8™ 4B.
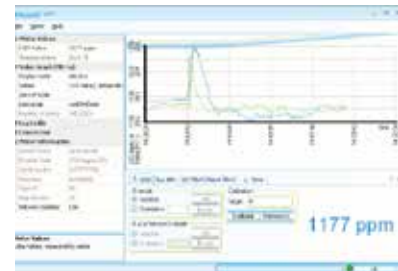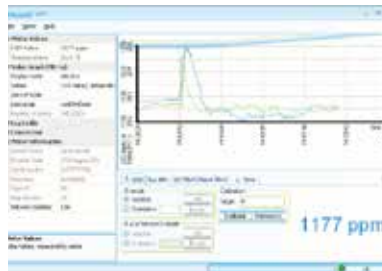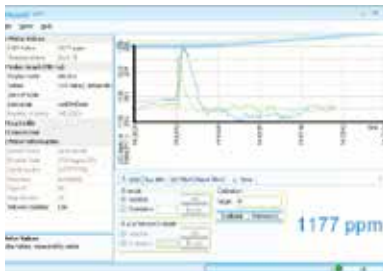
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CO$_2$ Engine® family

Accessories

World-leading manufacturer of cost-effective gas sensors

senseair.com