



S+S REGELTECHNIK



NEW



AERASGARD®

MULTIFUNCTIONAL AIR QUALITY SENSORS
MEASURING TRANSDUCERS FOR MIXED GAS (VOC),
CO₂ AND FINE DUST (PM)

GOOD ROOM CLIMATE IS MEASURABLE!

PRODUCT RANGE 2022

5

JAHRE GARANTIE
★★★★★
YEARS WARRANTY

MADE IN GERMANY



FÜHLBARE PRÄZISION



AERASGARD® FINE DUST SENSOR (PM)



NEW



APS-SD (Tyr2)

393,88 €



RPS-SD
without display

292,47 €



RFTM-PS-W
without display

381,51 €

RFTM-PS-CO2-W
with display

491,63 €



RFTM-LQ-PS-CO2-Modbus
with display

583,76 €

Prevents fine dust in room air

The expanded range of our **AERASGARD®** devices now also detects harmful fine dust and inhalable aerosols with particle sizes from 0.3 to 10 µm. The fine dust content in the room air is measured by an exceptionally contamination-resistant laser sensor and issued in µg/m³. The fine dust sensors are designed as **room devices** and available in various expansion levels. From the basic model without a display all the way to the multifunctional measuring transducers with several measured values.

AERASGARD® Multifunctional sensor and measuring transducer for fine dust (PM)								
Type / WG02	Measuring ranges		PM	CO2	VOC	Display	Item No.	Price
	Humidity	Temperature						
APS-SD			(switchable)				(0-10 V)	
APS-SD-U	–	–	0... 50 µg/m³ 0...100 µg/m³ 0...300 µg/m³ 0...500 µg/m³	–	–		1501-7130-1001-000	393,88 €
RPS-SD							(0-10 V)	
RPS-SD	–	–	(4x as above)	–	–		1501-2110-1001-000	292,47 €
RFTM-PS-W							(0-10 V / 4...20 mA)	
RFTM-PS-W	0...100% r.H.	0...+50 °C	(4x as above)	–	–	W	1501-2116-7301-000	381,51 €
RFTM-PS-W LCD	0...100% r.H.	0...+50 °C	(4x as above)	–	–	W ■	1501-2116-7321-000	463,51 €
RFTM-PS-CO2-W				(switchable)			(0-10 V / 4...20 mA)	
RFTM-PS-CO2-W	0...100% r.H.	0...+50 °C	(4x as above)	0...2000 ppm / 0...5000 ppm	–	W	1501-2113-7301-000	444,16 €
RFTM-PS-CO2-W LCD	0...100% r.H.	0...+50 °C	(4x as above)	0...2000 ppm / 0...5000 ppm	–	W ■	1501-2113-7321-000	491,63 €
Output:	0-10V or 4...20mA (selectable via DIP switches, selected variant applies for all outputs) – Standard room sensor RPS-SD with fixed output 0-10 V!							
Equipment:	W = changeover contact – Standard room sensor RPS-SD without changeover contact!							
Equipment:	These units must not be used as safety-relevant devices!							
RFTM-PS-Modbus							(Modbus)	
RFTM-PS-Modbus	0...100% r.H.	0...+50 °C	0...1000 µg/m³	–	–		1501-2116-6001-200	353,85 €
RFTM-PS-Modbus LCD	0...100% r.H.	0...+50 °C	0...1000 µg/m³	–	–	■	1501-2116-6021-200	406,59 €
RFTM-LQ-PS-CO2-Modbus							(Modbus)	
RFTM-LQ-PS-CO2-Modbus	0...100% r.H.	0...+50 °C	0...1000 µg/m³	5000 ppm	0...100%		1501-2119-6001-500	536,31 €
RFTM-LQ-PS-CO2-Modbus LCD	0...100% r.H.	0...+50 °C	0...1000 µg/m³	5000 ppm	0...100%	■	1501-2119-6021-500	583,76 €
Output:	Modbus RS485							
Note:	These units must not be used as safety-relevant devices!							



AERASGARD®

CO2 SENSORS WITH TRAFFIC LIGHT INDICATOR AND ACOUSTIC SIGNAL



NEW

193,19 €

RCO2-AS NT ST

with stand holder and
plug-in power supply unit (USB),
without mounting (plug-and-play)



LED 1, green: no action required

LED 2, green: prompt airing recommended

LED 3, yellow: airing recommended

LED 4, yellow: airing required

LED 5, red: intensive airing necessary



196,23 €

RCO2-AS NT

with plug-in power supply unit,
for direct wall mounting



—

—

1x 0.5 sec (> 1000 ppm)

2x 0.5 sec (> 1400 ppm)

3x 0.5 sec (> 2000 ppm)

1x 1.5 sec (> 2800 ppm)



RCO2-AS

Wall unit
(without power supply unit)

192,12 €



286,42 €

RCO2-AS UPNT

Wall unit
with flush-mount power supply unit

For sufficient ventilation to protect against infection

When people gather in rooms, they exhale large amounts of air. In addition to increasing the CO₂ concentration in the air inside the room, this also creates high volumes of aerosols that can carry pathogens such as the coronavirus. Therefore, CO₂ content is an indicator of effective infection protection through prompt ventilation through windows and doors. This enables energy-saving room ventilation on an as-needed basis, thereby reducing operating costs and improving well-being.

To perform this function, we have expanded our proven range of AERASGARD® CO₂ room sensors to include the following device types:

RCO2-AS NT ST (incl. plug-in power supply unit) as a **table-top unit** with stand holder made from stainless steel,

RCO2-AS NT (incl. plug-in power supply unit) for direct **wall mounting** with plug-in power supply unit as well as

RCO2-AS UPNT (incl. flush-mount power supply unit) and **RCO2-AS** (without power supply unit) for mounting on in-wall flush boxes.

The measurement is performed using an optical NDIR sensor (non-dispersive infra-red technology). The result is immediately displayed by five coloured LEDs as a traffic light indicator. In addition, a signal tone sounds (can be switched off via DIP switch) when the next relevant warning level is reached. The devices are maintenance-free and self-calibrating. We recommend one sensor for every 30 m² of space.

AERASGARD® CO2 sensor with traffic light indicator and acoustic signal					
Type / WG02	Measuring ranges CO2	Display CO2	Equipment	Item No. (Baldur 1)	Price
RCO2-AS xx					
RCO2-AS	0...3000 ppm	5 LEDs, signal tone	without power supply unit	1501-61A0-0686-230	192,12 €
RCO2-AS NT ST	0...3000 ppm	5 LEDs, signal tone	Plug-in power supply unit (micro-USB), stand holder	1501-61A0-0686-231	193,19 €
RCO2-AS NT	0...3000 ppm	5 LEDs, signal tone	Plug-in power supply unit	1501-61A0-0686-232	196,23 €
RCO2-AS UPNT	0...3000 ppm	5 LEDs, signal tone	Flush-mount power supply unit	1501-61A0-0686-233	286,42 €
Note: These units must not be used as safety-relevant devices!					



AERASGARD®

AIR QUALITY SENSORS (DUCT / ON-WALL)



Healthy room air essentially depends on the indoor content of CO₂ and volatile organic compounds (VOC). The carbon dioxide exhaled by people is also considered an indicator of the microbial load and risk of infection in rooms. VOC are caused by chemicals used in construction materials, furniture and flooring as well as by tobacco smoke. However, neither of the two measurands can be converted into or derived from another.

At S+S, the choice is up to you: Our **AERASGARD®** sensors and measuring transducers are available with CO₂ or VOC sensor as well as in innovative combinations of both. The VOC sensor changes its conductivity depending on the concentration, kind and proportional mixture of the gas molecules polluting the air. Its sensibility can be set to three different levels. The CO₂ sensor is based on non-dispersive infrared (NDIR) technology and uses a dual-beam measuring method.

Even the basic models all provide microprocessor control, zero maintenance, self-calibration, DIP switches for measuring range selection and active/switched output. The duct devices are supplied with a flange for stable mounting. Optional features include changeover contact (W), display and Modbus port.

AERASGARD® Duct sensor for VOC and CO ₂ content					
Type / WG02	Measuring Range	Output	Housing / Display	Item No.	Price
KLQ-SD-U	0...100 % VOC	0 - 10 V	T1	1501-3170-1001-500	202,39 €
KLQ-W	0...100 % VOC	0 - 10 V / 4...20 mA, 1x Changeover contact	T1	1501-3150-7301-500	211,27 €
KC02-SD-U	0...2000 / 5000 ppm	0 - 10 V	T1	1501-3160-1001-200	227,91 €
KC02-W	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact	T1	1501-3140-7301-200	276,92 €
KC02-W LCD	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact	T1 ■	1501-3140-7321-200	324,71 €
KC02-Modbus	0...5000 ppm	RS485	T2	1501-8110-6001-200	357,53 €
KC02-Modbus LCD	0...5000 ppm	RS485	T2 ■	1501-8110-6071-200	414,89 €

Note: These units must **not** be used as safety-relevant devices!

Housing: T1 = Tyr 1 / T2 = Tyr 2

AERASGARD® On-wall sensor for CO ₂ content					
Type / WG02	Measuring Range	Output	Display	Item No.	Price
AC02-SD-U	0...2000 / 5000 ppm	0 - 10 V		1501-7110-1001-200	233,15 €
AC02-W	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact		1501-7110-7301-200	334,50 €
AC02-W LCD	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact	■	1501-7110-7371-200	391,86 €
AC02-Modbus	0...5000 ppm	RS485		1501-7110-6001-200	357,53 €
AC02-Modbus LCD	0...5000 ppm	RS485	■	1501-7110-6071-200	425,91 €

Note: These units must **not** be used as safety-relevant devices!

Housing: Tyr 2



AERASGARD® MULTIFUNCTIONAL DUCT SENSORS



KTM-CO2-SD-U
Measuring transducer

290,47 €

KLQ-CO2-W

371,77 €



KFTM-LQ-CO2-W
with display

501,75 €



KLQ-CO2 Modbus
with two cable glands

403,61 €

PATENTED

Depending on the product type, these duct devices are available in an aesthetic **Tyr 1** (compact) or **Tyr 2** (wide) housing. They feature our patented **PLEUROFORM™** multi-chamber duct pipe and are supplied including flange for stable installation.



Our new Modbus capable **AERASGARD®** multifunctional devices for measuring of CO2 and VOC have a particular fit in energy and cost efficient central solutions for on-demand monitoring and control of the air quality in manufacturing, living, office and venue environments.



An additional screw-in sensor is available for humidity and temperature measurement. Standard delivery includes a plastic sinter filter. Optionally, the devices can also be supplied or retrofitted with a metal sinter filter.

AERASGARD® Multifunctional duct sensors and measuring transducers					
Type / WG02	Measuring Range	Output	Display	Item No.	Price
KTM-CO2-SD-U	0...2000 / 5000 ppm, -35...+80 °C	0-10 V		1501-8112-1001-200	290,47 €
KLQ-CO2-W	0...2000 / 5000 ppm, 0...100 % VOC	0-10 V / 4...20 mA, 1x Changeover contact		1501-8111-7301-500	371,77 €
KLQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100 % VOC	0-10 V / 4...20 mA, 1x Changeover contact	■	1501-8111-7371-500	427,95 €
KFTM-CO2-W	0...2000 / 5000 ppm 0...100 % r.H., -35...+80 °C	0-10 V / 4...20 mA, 1x Changeover contact		1501-8116-7301-200	355,23 €
KFTM-CO2-W LCD	0...2000 / 5000 ppm 0...100 % r.H., -35...+80 °C	0-10 V / 4...20 mA, 1x Changeover contact	■	1501-8116-7371-200	389,38 €
KFTM-LQ-CO2-W	0...2000 / 5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	0-10 V / 4...20 mA, 1x Changeover contact		1501-8118-7301-500	445,56 €
KFTM-LQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	0-10 V / 4...20 mA, 1x Changeover contact	■	1501-8118-7371-500	501,75 €
KLQ-CO2-Modbus	0...5000 ppm, 0...100 % VOC	RS485		1501-8111-6001-500	403,61 €
KLQ-CO2-Modbus LCD	0...5000 ppm, 0...100 % VOC	RS485	■	1501-8111-6071-500	471,55 €
KFTM-CO2-Modbus	0...5000 ppm 0...100 % r.H., -35...+80 °C	RS485		1501-8116-6001-200	366,75 €
KFTM-CO2-Modbus LCD	0...5000 ppm 0...100 % r.H., -35...+80 °C	RS485	■	1501-8116-6071-200	447,37 €
KFTM-LQ-CO2-Modbus	0...5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	RS485		1501-8118-6001-500	479,62 €
KFTM-LQ-CO2-Modbus LCD	0...5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	RS485	■	1501-8118-6071-500	563,68 €

Note: These units must **not** be used as safety-relevant devices!

Housing: Tyr 2



AERASGARD® MULTIFUNCTIONAL ON-WALL SENSORS



ATM-CO2-SD-U

296,79 €



AFTM-LQ-CO2-W
with display and
plastic sinter filter

671,68 €



ALQ-CO2 Modbus
with display and
two cable glands

563,68 €

In response to many requests, we have complemented the family of our **AERASGARD®** sensors and measuring transducers for room air quality monitoring and control with a range of on-wall devices in spacious **Tyr2** housing design. All models are available with display. In measuring technology and precision they match the properties of **AERASGARD®** duct sensors.

Usefull accessory includes a weather and sun protection hood as well as a metal sinter filter in stainless steel for enhanced sensor protection on multifunctional devices with ambient humidity and temperature measuring.

- Aesthetic and rugged housing in Tyr2 design
- Extra-large, backlit fold-out display (optional)
- Push-in terminals

AERASGARD® Multifunctional on-wall sensors and measuring transducers					
Type / WG02	Measuring Range	Output	Display	Item No.	Price
ATM-CO2-SD-U	0...2000 / 5000 ppm -35...+80 °C	0-10 V		1501-7112-1001-200	296,79 €
ALQ-CO2-W	0...2000 / 5000 ppm, 0...100 % VOC	0-10 V / 4...20 mA, 1x Changeover contact		1501-7111-7301-500	446,15 €
ALQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100 % VOC	0-10 V / 4...20 mA, 1x Changeover contact	■	1501-7111-7371-500	503,69 €
AFTM-CO2-W	0...2000 / 5000 ppm 0...100 % r.H., -35...+80 °C	0-10 V / 4...20 mA, 1x Changeover contact		1501-7116-7301-200	428,49 €
AFTM-CO2-W LCD	0...2000 / 5000 ppm 0...100 % r.H., -35...+80 °C	0-10 V / 4...20 mA, 1x Changeover contact	■	1501-7116-7371-200	514,18 €
AFTM-LQ-CO2-W	0...2000 / 5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	0-10 V / 4...20 mA, 1x Changeover contact		1501-7118-7301-500	561,12 €
AFTM-LQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	0-10 V / 4...20 mA, 1x Changeover contact	■	1501-7118-7371-500	671,68 €
ALQ-CO2-Modbus	0...5000 ppm, 0...100 % VOC	RS485		1501-7111-6001-500	481,92 €
ALQ-CO2-Modbus LCD	0...5000 ppm, 0...100 % VOC	RS485	■	1501-7111-6071-500	563,68 €
AFTM-CO2-Modbus	0...5000 ppm 0...100 % r.H., -35...+80 °C	RS485		1501-7116-6001-200	448,51 €
AFTM-CO2-Modbus LCD	0...5000 ppm 0...100 % r.H., -35...+80 °C	RS485	■	1501-7116-6071-200	537,20 €
AFTM-LQ-CO2-Modbus	0...5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	RS485		1501-7118-6001-500	573,15 €
AFTM-LQ-CO2-Modbus LCD	0...5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	RS485	■	1501-7118-6071-500	677,71 €

Note: These units must **not** be used as safety-relevant devices!

Housing: Tyr2



AERASGARD®

MULTIFUNCTIONAL ROOM SENSORS



RLQ-SD-U
(Baldur 1)

164,14 €



RCO2-SD-U
(Baldur 1)

199,72 €

RCO2-W-A
with LEDs and
traffic light (Baldur 1)

278,07 €



RFTM-CO2-Modbus-P
with display
(Baldur 2)

386,48 €



FSFTM-CO2-Modbus
with potentiometer

440,37 €

AERASGARD® Multifunctional room sensors and measuring transducers					
Type / WG02	Measuring Range	Output	Housing / Display	Item No.	Price
FSC02-U	0...2000 ppm	0-10 V	–	1501-9120-1001-162	321,81 €
FSTM-CO2-U	0...2000 ppm, 0...+50 °C	0-10 V	–	1501-9122-1001-162	326,32 €
RLQ-SD-U	0...100 % VOC	0-10 V	B1	1501-61C0-1001-500	164,14 €
RLQ-W	0...100 % VOC	0-10 V / 4...20 mA, 1x Changeover contact	B1	1501-61C0-7301-500	172,04 €
RLQ-W-A	0...100 % VOC	0-10 V / 4...20 mA, 1x Changeover contact	B1, A	1501-61C0-7331-500	196,29 €
RCO2-SD-U	0...2000 ppm	0-10 V	B1	1501-61A0-1001-200	199,72 €
RCO2-W	0...2000 / 5000 ppm	0-10 V / 4...20 mA, 1x Changeover contact	B1	1501-61A0-7301-200	236,61 €
RCO2-W-A	0...2000 / 5000 ppm	0-10 V / 4...20 mA, 1x Changeover contact	B1, A	1501-61A0-7331-200	278,07 €
RCO2-W LCD	0...2000 / 5000 ppm	0-10 V / 4...20 mA, 1x Changeover contact	B2 ■	1501-61B0-7321-200	284,06 €
RTM-CO2-SD-U	0...2000 ppm, 0...+50 °C	0-10 V	B2	1501-61B2-1001-200	218,67 €
RLQ-CO2-W	0...2000 / 5000 ppm, 0...100 % VOC	0-10 V / 4...20 mA, 1x Changeover contact	B2	1501-61B1-7301-500	357,53 €
RLQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100 % VOC	0-10 V / 4...20 mA, 1x Changeover contact	B2 ■	1501-61B1-7321-500	404,99 €
RFTM-CO2-W	0...2000 / 5000 ppm 0...100 % r.H., 0...+50 °C	0-10 V / 4...20 mA, 1x Changeover contact	B2	1501-61B6-7301-200	334,00 €
RFTM-CO2-W LCD	0...2000 / 5000 ppm 0...100 % r.H., 0...+50 °C	0-10 V / 4...20 mA, 1x Changeover contact	B2 ■	1501-61B6-7321-200	370,45 €
RFTM-LQ-CO2-W	0...2000 / 5000 ppm, 0...100 % VOC 0...100 % r.H., 0...+50 °C	0-10 V / 4...20 mA, 1x Changeover contact	B2	1501-61B8-7301-500	392,09 €
RFTM-LQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100 % VOC 0...100 % r.H., 0...+50 °C	0-10 V / 4...20 mA, 1x Changeover contact	B2 ■	1501-61B8-7321-500	439,54 €
FSFTM-CO2-Modbus	0...5000 ppm, 0...100 % r.H., 0...+50 °C	RS485	–	1501-9226-6001-162	356,81 €
FSFTM-CO2-Modbus P	0...5000 ppm, 0...100 % r.H., 0...+50 °C with potentiometer	RS485	–	1501-9226-6501-282	440,37 €
RCO2-Modbus	0...5000 ppm	RS485	B2	1501-61B0-6001-200	259,63 €
RCO2-Modbus LCD	0...5000 ppm	RS485	B2 ■	1501-61B0-6021-200	307,10 €
RLQ-CO2-Modbus	0...5000 ppm, 0...100 % VOC	RS485	B2	1501-61B1-6001-500	380,57 €
RLQ-CO2-Modbus LCD	0...5000 ppm, 0...100 % VOC	RS485	B2 ■	1501-61B1-6021-500	428,03 €
RFTM-CO2-Modbus	0...5000 ppm 0...100 % r.H., 0...+50 °C	RS485	B2	1501-61B6-6001-200	306,35 €
RFTM-CO2-Modbus LCD	0...5000 ppm 0...100 % r.H., 0...+50 °C	RS485	B2 ■	1501-61B6-6021-200	353,58 €
RFTM-CO2-Modbus P	0...5000 ppm, 0...100 % r.H., 0...+50 °C with potentiometer	RS485	B2	1501-61B6-6501-271	339,02 €
RFTM-CO2-Modbus P LCD	0...5000 ppm, 0...100 % r.H., 0...+50 °C with potentiometer	RS485	B2 ■	1501-61B6-6521-271	386,48 €
RFTM-LQ-CO2-Modbus	0...5000 ppm, 0...100 % VOC 0...100 % r.H., 0...+50 °C	RS485	B2	1501-61B8-6001-500	415,13 €
RFTM-LQ-CO2-Modbus LCD	0...5000 ppm, 0...100 % VOC 0...100 % r.H., 0...+50 °C	RS485	B2 ■	1501-61B8-6021-500	462,59 €

Note: These units must **not** be used as safety-relevant devices!

Housing: **B1** = Baldur 1 / **B2** = Baldur 2 / **A** = Traffic-light LEDs



S+S REGELTECHNIK



S+S stands for a fully integral value chain. All products are designed, developed, manufactured and programmed in-house.

The new S+S company headquarters on a total area of 14,000 m² in Nordostpark on the outskirts of Nuremberg offers a seamlessly integrated production and development environment with excellent air and road links.



A PASSION FOR INNOVATION

S+S Regeltechnik defines itself as a flexible and reliable partner for your requirements, from the single device to networked facility and industry automation. To us, innovation means to lead the market both in technology and in quality. This is how we back up your investment in products that express our passion for precision.

BROAD PORTFOLIO

Our sensors, transmitters, thermostats, hygrometers, monitors, controllers and room climate controllers for facility and industry engineering are designed to be multifunctional. This reduces the diversity of types and expands their application potential. Thanks to microprocessor technology, almost any measuring range can be represented, including custom specifications.

SUPERIOR QUALITY & CERTIFIED SAFETY

All devices are function tested as well as calibrated in-house prior to shipment and meet strict safety, quality and sustainability standards.

You can find technical data and further information in our web shop or catalogue.

S+S REGELTECHNIK GMBH
THURN-UND-TAXIS-STR. 22
90411 NUREMBERG / GERMANY

FON +49 (0) 911 / 5 19 47-0
FAX +49 (0) 911 / 5 19 47-70
FAX +49 (0) 911 / 5 19 47-73

mail@SplusS.de
www.SplusS.de



**Qualitätsmanagementsystem
ISO 9001**

- Kundenorientierung
- Kundenzufriedenheit
- Fortlaufende Verbesserung
- System- bzw. Prozesswirksamkeit

ID 15 100 21333

www.tuev-thueringen.de

Our development and production in Nuremberg, Germany, is certified by the Technical Inspection Authority (TÜV) in Thuringia to DIN EN ISO 9001:2015.



**DIN tested
and certified**



**RoHS tested
and certified**



**ESD compliant
manufacturing**



**EAC
certified**



**GOST certificates for
export of all S+S products
to CIS member states**



**CE compliant devices tested
by external laboratories**



For fast & direct ordering, visit **www.SplusS.de**