



S+S REGELTECHNIK



AERASGARD®

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



PRODUCT RANGE 2024



FÜHLBARE PRÄZISION



AERASGARD® FINE DUST SENSOR (PM)



APS-SD (Tyr2)

425,98 €



RPS-SD
without display

316,30 €



RFTM-PS-W
without display

412,61 €

RFTM-PS-CO2-W
with display

531,70 €



RFTM-LQ-PS-CO2 - Modbus
with display

631,34 €

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			Display			Item No.	Price
	Humidity	Temperature	PM	CO2	VOC			
APS-SD			(switchable)			(0-10V)		
APS-SD-U	-	-	0... 50 µg/m³ 0...100 µg/m³ 0...300 µg/m³ 0...500 µg/m³	-	-		1501-7130-1001-000	425,98 €
RPS-SD						(0-10V)		
RPS-SD	-	-	(4x as above)	-	-		1501-2110-1001-000	316,30 €
RFTM-PS-W						(0-10V / 4...20 mA)		
RFTM-PS-W	0...100% RH	0...+50 °C	(4x as above)	-	-	W	1501-2116-7301-000	412,61 €
RFTM-PS-W LCD	0...100% RH	0...+50 °C	(4x as above)	-	-	W ■	1501-2116-7321-000	501,29 €
RFTM-PS-CO2-W						(switchable) (0-10V / 4...20 mA)		
RFTM-PS-CO2-W	0...100% RH	0...+50 °C	(4x as above)	0...2000 ppm / 0...5000 ppm	-	W	1501-2113-7301-000	480,36 €
RFTM-PS-CO2-W LCD	0...100% RH	0...+50 °C	(4x as above)	0...2000 ppm / 0...5000 ppm	-	W ■	1501-2113-7321-000	531,70 €
Output:	0-10V or 4...20mA (selectable via DIP switches, selected variant applies for all outputs) – <i>Standard room sensor RPS-SD with fixed output 0-10V!</i>							
Equipment:	W = changeover contact – <i>Standard room sensor RPS-SD without changeover contact!</i>							
Equipment:	These units must not be used as safety-relevant devices!							
RFTM-PS-Modbus						(Modbus)		
RFTM-PS-Modbus	0...100% RH	0...+50 °C	0...1000 µg/m³	-	-		1501-2116-6001-200	382,69 €
RFTM-PS-Modbus LCD	0...100% RH	0...+50 °C	0...1000 µg/m³	-	-	■	1501-2116-6021-200	439,73 €
RFTM-LQ-PS-CO2-Modbus						(Modbus)		
RFTM-LQ-PS-CO2-Modbus	0...100% RH	0...+50 °C	0...1000 µg/m³	5000 ppm	0...100%		1501-2119-6001-500	580,02 €
RFTM-LQ-PS-CO2-Modbus LCD	0...100% RH	0...+50 °C	0...1000 µg/m³	5000 ppm	0...100%	■	1501-2119-6021-500	631,34 €
Output:	Modbus RS485							
Note:	These units must not be used as safety-relevant devices!							

NEW



AERASGARD®
SENSORS



RPCO2
without display

418,27 €



A02
without display

629,17 €



AMS02-Modbus LCD

1.554,57 €

AERASGARD® RPCO2 Room pendulum CO2 sensor or measuring transducer, *Premium*

Type / WG02	Measuring ranges CO2	Output 1 CO2	Output 2 CO2	Output switching	Display	Item no.	Price
RPCO2 xx switchable							
RPCO2	0...2000 ppm / 0...5000 ppm / 0...10000 ppm	0-10 V	4...20 mA	–		3CON-0203-0001-000	418,27 €
RPCO2 LCD	(3x as above)	0-10 V	4...20 mA	–	■	3CON-0206-0001-000	475,39 €
RPCO2-W	(3x as above)	0-10 V	4...20 mA	Changeover contact		3CON-0203-1001-000	432,33 €
RPCO2-W LCD	(3x as above)	0-10 V	4...20 mA	Changeover contact	■	3CON-0206-1001-000	490,33 €
Note:	This unit must not be used as a safety-relevant device!						

AERASGARD® A02 Wall-mounted oxygen sensor or measuring transducer, *Premium*

Type / WG02	Measuring ranges O2	Output O2	Output switching	Display	Item no.	Price
A02 xx						
A02-U	0...25 %	0-10 V	–		3CON-0301-0004-000	629,17 €
A02-U LCD	0...25 %	0-10 V	–	■	3CON-0301-1004-000	740,77 €
A02-U/W	0...25 %	0-10 V	Changeover contact		3CON-0304-0004-000	652,01 €
A02-U/W LCD	0...25 %	0-10 V	Changeover contact	■	3CON-0304-1004-000	763,60 €
Note:	This unit must not be used as a safety-relevant device!					

AERASGARD® AMS Wall-mounted multi-sensor Modbus, *Deluxe*

Type / WG02	Measuring ranges Temp./Humidity*	PM	Atmospheric pressure	CO	CO2	VOC	Display	Item no.	Price
		[µg/m³]	[Imbar]	[ppm]	[ppm]	[%]			
AMS01-Modbus LCD	-20...+50 °C 0...100 % RH	0...250 0...1000	–	0...1000	0...10 000 0...20 000 0...50 000	0...100	■	3CON-0107-1005-000	1.586,05 €
AMS02-Modbus LCD	-20...+50 °C 0...100 % RH	0...250 0...1000	500-1150	–	0...10 000 0...20 000 0...50 000	0...100	■	3CON-0107-1006-000	1.554,57 €
AMS03-Modbus LCD	-20...+50 °C 0...100 % RH	0...250 0...1000	500-1150	0...1000	0...10 000 0...20 000 0...50 000	0...100	■	3CON-0107-1007-000	1.681,24 €
Output:	Modbus RS485								
Calculated values:	* dew point temperature, absolute humidity, mixing ratio, wet bulb temperature, steam pressure								
Note:	This unit must not be used as a safety-relevant device!								



AERASGARD® AIR QUALITY SENSORS (DUCT/ON-WALL)



KLQ-SD-U
218,89 €

KC02-SD-U
246,49 €

KC02-W
with display
351,18 €

AC02-SD-U
252,15 €

AC02-W
with display
423,79 €

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	218,89 €
KLQ-W	0...100 % VOC	0 - 10 V / 4...20 mA, 1x Changeover contact	T1	1501-3150-7301-500	228,48 €
KC02-SD-U	0...2000 / 5000 ppm	0 - 10 V	T1	1501-3160-1001-200	246,49 €
KC02-W	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact	T1	1501-3140-7301-200	299,49 €
KC02-W LCD	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact	T1	■ 1501-3140-7321-200	351,18 €
KC02-Modbus	0...5000 ppm	RS485	T2	1501-8110-6001-200	386,67 €
KC02-Modbus LCD	0...5000 ppm	RS485	T2	■ 1501-8110-6071-200	448,70 €

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	252,15 €
AC02-W	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact		1501-7110-7301-200	361,77 €
AC02-W LCD	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact	■	1501-7110-7371-200	423,79 €
AC02-Modbus	0...5000 ppm	RS485		1501-7110-6001-200	386,67 €
AC02-Modbus LCD	0...5000 ppm	RS485	■	1501-7110-6071-200	460,63 €

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

Housing: Tyr 2



AERASGARD® MULTIFUNCTIONAL DUCT SENSORS



KTM-CO2-SD-U
Measuring transducer

314,14 €

KLQ-CO2-W

402,07 €



KFTM-LQ-CO2-W
with display

542,65 €



KLQ-CO2 Modbus
with two cable glands

436,50 €

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	0-10V		1501-8112-1001-200	314,14 €
KLQ-CO2-W	0...2000 / 5000 ppm, 0...100% VOC	0-10V / 4...20mA, 1x Changeover contact		1501-8111-7301-500	402,07 €
KLQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100% VOC	0-10V / 4...20mA, 1x Changeover contact	■	1501-8111-7371-500	462,83 €
KFTM-CO2-W	0...2000 / 5000 ppm 0...100% RH, -35...+80 °C	0-10V / 4...20mA, 1x Changeover contact		1501-8116-7301-200	384,18 €
KFTM-CO2-W LCD	0...2000 / 5000 ppm 0...100% RH, -35...+80 °C	0-10V / 4...20mA, 1x Changeover contact	■	1501-8116-7371-200	421,12 €
KFTM-LQ-CO2-W	0...2000 / 5000 ppm, 0...100% VOC 0...100% RH, -35...+80 °C	0-10V / 4...20mA, 1x Changeover contact		1501-8118-7301-500	481,88 €
KFTM-LQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100% VOC 0...100% RH, -35...+80 °C	0-10V / 4...20mA, 1x Changeover contact	■	1501-8118-7371-500	542,65 €
KLQ-CO2-Modbus	0...5000 ppm, 0...100% VOC	RS485		1501-8111-6001-500	436,50 €
KLQ-CO2-Modbus LCD	0...5000 ppm, 0...100% VOC	RS485	■	1501-8111-6071-500	509,98 €
KFTM-CO2-Modbus	0...5000 ppm 0...100% RH, -35...+80 °C	RS485		1501-8116-6001-200	396,64 €
KFTM-CO2-Modbus LCD	0...5000 ppm 0...100% RH, -35...+80 °C	RS485	■	1501-8116-6071-200	483,83 €
KFTM-LQ-CO2-Modbus	0...5000 ppm, 0...100% VOC 0...100% RH, -35...+80 °C	RS485		1501-8118-6001-500	518,71 €
KFTM-LQ-CO2-Modbus LCD	0...5000 ppm, 0...100% VOC 0...100% RH, -35...+80 °C	RS485	■	1501-8118-6071-500	609,62 €

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

Housing: Tyr 2



AERASGARD® MULTIFUNCTIONAL ON-WALL SENSORS / IN-WALL SENSOR



ALQ-CO2 Modbus
with display and
two cable glands

609,62 €



ATM-CO2-SD-U

320,98 €



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

726,42 €



FSFTM-CO2-Modbus P

476,26 €



FSLQ-U

253,07 €

AERASGARD®		Multifunctional in-wall sensors in the panel switch programme		
Type / WG02	Measuring Range	Output	Item No.	Price
FSLQ-U	0...100% VOC	0-10V	1501-5120-1000-162	253,07 €
FSCO2-U	0...2000 ppm	0-10V	1501-9120-1001-162	348,04 €
FSTM-CO2-U	0...2000 ppm, 0...+50 °C	0-10V	1501-9122-1001-162	352,92 €
FSFTM-CO2-Modbus	0...5000 ppm, 0...100% RH, 0...+50 °C	RS485	1501-9226-6001-162	385,89 €
FSFTM-CO2-Modbus P	0...5000 ppm, 0...100% RH, 0...+50 °C with potentiometer	RS485	1501-9226-6501-282	476,26 €

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

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	0-10V		1501-7112-1001-200	320,98 €
ALQ-CO2-W	0...2000 / 5000 ppm, 0...100% VOC	0-10V / 4...20 mA, 1x Changeover contact		1501-7111-7301-500	482,51 €
ALQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100% VOC	0-10V / 4...20 mA, 1x Changeover contact	■	1501-7111-7371-500	544,74 €
AFTM-CO2-W	0...2000 / 5000 ppm 0...100% RH, -35...+80 °C	0-10V / 4...20 mA, 1x Changeover contact		1501-7116-7301-200	463,41 €
AFTM-CO2-W LCD	0...2000 / 5000 ppm 0...100% RH, -35...+80 °C	0-10V / 4...20 mA, 1x Changeover contact	■	1501-7116-7371-200	556,09 €
AFTM-LQ-CO2-W	0...2000 / 5000 ppm, 0...100% VOC 0...100% RH, -35...+80 °C	0-10V / 4...20 mA, 1x Changeover contact		1501-7118-7301-500	606,86 €
AFTM-LQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100% VOC 0...100% RH, -35...+80 °C	0-10V / 4...20 mA, 1x Changeover contact	■	1501-7118-7371-500	726,42 €
ALQ-CO2-Modbus	0...5000 ppm, 0...100% VOC	RS485		1501-7111-6001-500	521,20 €
ALQ-CO2-Modbus LCD	0...5000 ppm, 0...100% VOC	RS485	■	1501-7111-6071-500	609,62 €
AFTM-CO2-Modbus	0...5000 ppm 0...100% RH, -35...+80 °C	RS485		1501-7116-6001-200	485,07 €
AFTM-CO2-Modbus LCD	0...5000 ppm 0...100% RH, -35...+80 °C	RS485	■	1501-7116-6071-200	580,98 €
AFTM-LQ-CO2-Modbus	0...5000 ppm, 0...100% VOC 0...100% RH, -35...+80 °C	RS485		1501-7118-6001-500	619,86 €
AFTM-LQ-CO2-Modbus LCD	0...5000 ppm, 0...100% VOC 0...100% RH, -35...+80 °C	RS485	■	1501-7118-6071-500	732,95 €

Note: These units must **not** be used as safety-relevant devices! Housing: Tyr 2



AERASGARD® MULTIFUNCTIONAL ROOM SENSORS



RLQ-SD-U
(Baldur 1)

177,52 €



RCO2-SD-U
(Baldur 1)

216,00 €



RCO2-W-A
with LED traffic light and
changeover contact (Baldur 1)

300,73 €



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

417,97 €

RCO2-AS
with LED traffic light and
signal tone (Baldur 1)

207,78 €

AERASGARD® Multifunctional room sensors and measuring transducers						
Type / WG02	Measuring Range	Output	Housing / Display	Item No.	Price	
RLQ-SD-U	0...100% VOC	0 - 10V	B1	1501-61C0-1001-500	177,52 €	
RLQ-W	0...100% VOC	0 - 10V / 4...20mA, 1x Changeover contact	B1	1501-61C0-7301-500	186,06 €	
RLQ-W-A	0...100% VOC	0 - 10V / 4...20mA, 1x Changeover contact	B1, A	1501-61C0-7331-500	212,28 €	
RCO2-SD-U	0...2000 ppm	0 - 10V	B1	1501-61A0-1001-200	216,00 €	
RCO2-W	0...2000 / 5000 ppm	0 - 10V / 4...20mA, 1x Changeover contact	B1	1501-61A0-7301-200	255,89 €	
RCO2-W-A	0...2000 / 5000 ppm	0 - 10V / 4...20mA, 1x Changeover contact	B1, A	1501-61A0-7331-200	300,73 €	
RCO2-W LCD	0...2000 / 5000 ppm	0 - 10V / 4...20mA, 1x Changeover contact	B2	1501-61B0-7321-200	307,21 €	■
RTM-CO2-SD-U	0...2000 ppm, 0...+50 °C	0 - 10V	B2	1501-61B2-1001-200	236,49 €	
RLQ-CO2-W	0...2000 / 5000 ppm, 0...100% VOC	0 - 10V / 4...20mA, 1x Changeover contact	B2	1501-61B1-7301-500	386,67 €	
RLQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100% VOC	0 - 10V / 4...20mA, 1x Changeover contact	B2	1501-61B1-7321-500	438,00 €	■
RFTM-CO2-W	0...2000 / 5000 ppm 0...100% RH, 0...+50 °C	0 - 10V / 4...20mA, 1x Changeover contact	B2	1501-61B6-7301-200	361,22 €	
RFTM-CO2-W LCD	0...2000 / 5000 ppm 0...100% RH, 0...+50 °C	0 - 10V / 4...20mA, 1x Changeover contact	B2	1501-61B6-7321-200	400,64 €	■
RFTM-LQ-CO2-W	0...2000 / 5000 ppm, 0...100% VOC 0...100% RH, 0...+50 °C	0 - 10V / 4...20mA, 1x Changeover contact	B2	1501-61B8-7301-500	424,04 €	
RFTM-LQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100% VOC 0...100% RH, 0...+50 °C	0 - 10V / 4...20mA, 1x Changeover contact	B2	1501-61B8-7321-500	475,37 €	■
RCO2-Modbus	0...5000 ppm	RS485	B2	1501-61B0-6001-200	280,79 €	
RCO2-Modbus LCD	0...5000 ppm	RS485	B2	1501-61B0-6021-200	332,13 €	■
RLQ-CO2-Modbus	0...5000 ppm, 0...100% VOC	RS485	B2	1501-61B1-6001-500	411,59 €	
RLQ-CO2-Modbus LCD	0...5000 ppm, 0...100% VOC	RS485	B2	1501-61B1-6021-500	462,91 €	■
RFTM-CO2-Modbus	0...5000 ppm 0...100% RH, 0...+50 °C	RS485	B2	1501-61B6-6001-200	331,32 €	
RFTM-CO2-Modbus LCD	0...5000 ppm 0...100% RH, 0...+50 °C	RS485	B2	1501-61B6-6021-200	382,40 €	■
RFTM-CO2-Modbus P	0...5000 ppm, 0...100% RH, 0...+50 °C with potentiometer	RS485	B2	1501-61B6-6501-271	366,65 €	
RFTM-CO2-Modbus P LCD	0...5000 ppm, 0...100% RH, 0...+50 °C with potentiometer	RS485	B2	1501-61B6-6521-271	417,97 €	■
RFTM-LQ-CO2-Modbus	0...5000 ppm, 0...100% VOC 0...100% RH, 0...+50 °C	RS485	B2	1501-61B8-6001-500	448,97 €	
RFTM-LQ-CO2-Modbus LCD	0...5000 ppm, 0...100% VOC 0...100% RH, 0...+50 °C	RS485	B2	1501-61B8-6021-500	500,29 €	■
RCO2-AS xx	CO2 sensor with traffic light indicator (5 LEDs) and acoustic signal NT = plug-in power supply unit / UPNT = in-wall power supply unit / ST = stainless steel stand holder					
RCO2-AS	0...3000 ppm	0 - 10V / 4...20mA	B1, A	1501-61A0-0686-230	207,78 €	
RCO2-AS NT ST	0...3000 ppm	0 - 10V / 4...20mA	B1, A	1501-61A0-0686-231	208,94 €	
RCO2-AS NT	0...3000 ppm	0 - 10V / 4...20mA	B1, A	1501-61A0-0686-232	212,22 €	
RCO2-AS UPNT	0...3000 ppm	0 - 10V / 4...20mA	B1, A	1501-61A0-0686-233	309,76 €	

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

Housing: B1 = Baldur 1 / B2 = Baldur 2 / A = Traffic-light (5x LED)



S+S REGELTECHNIK



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

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

Development, manufacturing and sales in Nuremberg are certified by TÜV Thüringen according to DIN EN ISO 9001:2015 (quality management) and DIN EN ISO 14001:2015 (environmental management).

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



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