



S+S REGELTECHNIK



AERASGARD®

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



PRODUCT RANGE 2024



S+S REGELTECHNIK USA DIVISION



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 USD
KLQ-SD-U	0...100 % VOC	0 - 10 V	T1	1501-3170-1001-500	\$247.35
KLQ-W	0...100 % VOC	0 - 10 V / 4...20 mA, 1x Changeover contact	T1	1501-3150-7301-500	\$258.18
KC02-SD-U	0...2000 / 5000 ppm	0 - 10 V	T1	1501-3160-1001-200	\$278.53
KC02-W	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact	T1	1501-3140-7301-200	\$338.42
KC02-W LCD	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact	T1 ■	1501-3140-7321-200	\$396.83
KC02-Modbus	0...5000 ppm	RS485	T2	1501-8110-6001-200	\$436.94
KC02-Modbus LCD	0...5000 ppm	RS485	T2 ■	1501-8110-6071-200	\$507.03

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 USD
AC02-SD-U	0...2000 / 5000 ppm	0 - 10 V		1501-7110-1001-200	\$284.93
AC02-W	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact		1501-7110-7301-200	\$408.80
AC02-W LCD	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact	■	1501-7110-7371-200	\$478.88
AC02-Modbus	0...5000 ppm	RS485		1501-7110-6001-200	\$436.94
AC02-Modbus LCD	0...5000 ppm	RS485	■	1501-7110-6071-200	\$520.51

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

Housing: Tyr 2



AERASGARD® MULTIFUNCTIONAL DUCT SENSORS



KTM-CO2-SD-U
Measuring transducer

\$354.98



KFTM-LQ-CO2-W
with display

\$613.19



KLQ-CO2 Modbus
with two cable glands

\$493.24

KLQ-CO2-W
\$454.34

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.

Also available as a device variant with a sensor 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 / Readout SI*	Output	Display	Item No.	Price USD
KTM-CO2-SD-U	0...2000 / 5000 ppm -35...+80 °C (-31...+176 °F)*	0-10 V		1501-8112-1001-200	\$354.98
KLQ-CO2-W	0...2000 / 5000 ppm, 0...100% VOC	0-10 V / 4...20 mA, 1x Changeover contact		1501-8111-7301-500	\$454.34
KLQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100% VOC	0-10 V / 4...20 mA, 1x Changeover contact	■	1501-8111-7371-500	\$523.00
KFTM-CO2-W	0...2000 / 5000 ppm 0...100% RH, -35...+80 °C (-31...+176 °F)*	0-10 V / 4...20 mA, 1x Changeover contact		1501-8116-7301-200	\$434.12
KFTM-CO2-W LCD	0...2000 / 5000 ppm 0...100% RH, -35...+80 °C (-31...+176 °F)*	0-10 V / 4...20 mA, 1x Changeover contact	■	1501-8116-7371-200	\$475.87
KFTM-LQ-CO2-W	0...2000 / 5000 ppm, 0...100% VOC 0...100% RH, -35...+80 °C (-31...+176 °F)*	0-10 V / 4...20 mA, 1x Changeover contact		1501-8118-7301-500	\$544.52
KFTM-LQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100% VOC 0...100% RH, -35...+80 °C (-31...+176 °F)*	0-10 V / 4...20 mA, 1x Changeover contact	■	1501-8118-7371-500	\$613.19
xx-Modbus	Measuring Range / Readout Imperial				
KLQ-CO2-Modbus	0...5000 ppm, 0...100% VOC	RS485		1501-8111-6001-500	\$493.24
KLQ-CO2-Modbus LCD	0...5000 ppm, 0...100% VOC	RS485	■	1501-8111-6071-500	\$576.28
KFTM-CO2-Modbus	0...5000 ppm 0...100% RH, -31...+176 °F	RS485		1501-8116-6001-200	\$448.20
KFTM-CO2-Modbus LCD	0...5000 ppm 0...100% RH, -31...+176 °F	RS485	■	1501-8116-6071-200	\$546.73
KFTM-LQ-CO2-Modbus	0...5000 ppm, 0...100% VOC 0...100% RH, -31...+176 °F	RS485		1501-8118-6001-500	\$586.14
KFTM-LQ-CO2-Modbus LCD	0...5000 ppm, 0...100% VOC 0...100% RH, -31...+176 °F	RS485	■	1501-8118-6071-500	\$688.87

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

\$688.87



ATM-CO2-SD-U

\$362.71



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

\$820.85



FSFTM-CO2-Modbus P

\$538.17



FSLQ-U

\$285.97

AERASGARD®		Multifunctional in-wall sensors in the panel switch programme		
Type / WG02	Measuring Range / Readout SI*	Output	Item No.	Price USD
FSLQ-U	0...100% VOC	0-10 V	1501-5120-1000-162	\$285.97
FSC02-U	0...2000 ppm	0-10 V	1501-9120-1001-162	\$393.29
FSTM-CO2-U	0...2000 ppm, 0...+50 °C (+32...+122 °F)*	0-10 V	1501-9122-1001-162	\$398.80
xx-Modbus		Measuring Range / Readout Imperial		
FSFTM-CO2-Modbus	0...5000 ppm, 0...100% RH, +32...+122 °F	RS485	1501-9226-6001-162	\$436.06
FSFTM-CO2-Modbus P	0...5000 ppm, 0...100% RH, +32...+122 °F with potentiometer	RS485	1501-9226-6501-282	\$538.17
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 / Readout SI*	Output	Display	Item No.	Price USD
ATM-CO2-SD-U	0...2000 / 5000 ppm -35...+80 °C (-31...+176 °F)*	0-10 V		1501-7112-1001-200	\$362.71
ALQ-CO2-W	0...2000 / 5000 ppm, 0...100% VOC	0-10 V / 4...20 mA, 1x Changeover contact		1501-7111-7301-500	\$545.24
ALQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100% VOC	0-10 V / 4...20 mA, 1x Changeover contact	■	1501-7111-7371-500	\$615.56
AFTM-CO2-W	0...2000 / 5000 ppm 0...100% RH, -35...+80 °C (-31...+176 °F)*	0-10 V / 4...20 mA, 1x Changeover contact		1501-7116-7301-200	\$523.65
AFTM-CO2-W LCD	0...2000 / 5000 ppm 0...100% RH, -35...+80 °C (-31...+176 °F)*	0-10 V / 4...20 mA, 1x Changeover contact	■	1501-7116-7371-200	\$628.38
AFTM-LQ-CO2-W	0...2000 / 5000 ppm, 0...100% VOC 0...100% RH, -35...+80 °C (-31...+176 °F)*	0-10 V / 4...20 mA, 1x Changeover contact		1501-7118-7301-500	\$685.75
AFTM-LQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100% VOC 0...100% RH, -35...+80 °C (-31...+176 °F)*	0-10 V / 4...20 mA, 1x Changeover contact	■	1501-7118-7371-500	\$820.85
xx-Modbus		Measuring Range / Readout Imperial			
ALQ-CO2-Modbus	0...5000 ppm, 0...100% VOC	RS485		1501-7111-6001-500	\$588.96
ALQ-CO2-Modbus LCD	0...5000 ppm, 0...100% VOC	RS485	■	1501-7111-6071-500	\$688.87
AFTM-CO2-Modbus	0...5000 ppm 0...100% RH, -31...+176 °F	RS485		1501-7116-6001-200	\$548.13
AFTM-CO2-Modbus LCD	0...5000 ppm 0...100% RH, -31...+176 °F	RS485	■	1501-7116-6071-200	\$656.51
AFTM-LQ-CO2-Modbus	0...5000 ppm, 0...100% VOC 0...100% RH, -31...+176 °F	RS485		1501-7118-6001-500	\$700.44
AFTM-LQ-CO2-Modbus LCD	0...5000 ppm, 0...100% VOC 0...100% RH, -31...+176 °F	RS485	■	1501-7118-6071-500	\$828.23
Note: These units must not be used as safety-relevant devices!			Housing: Tyr 2		



AERASGARD® MULTIFUNCTIONAL ROOM SENSORS



RLQ-SD-U
(Baldur 1)

\$200.60

RC02-SD-U
(Baldur 1)

\$244.08

RC02-W-A
with LED traffic light and
changeover contact (Baldur 1)

\$339.82

RC02-AS
with LED traffic light and
signal tone (Baldur 1)

\$234.79

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

\$472.31

AERASGARD® Multifunctional room sensors and measuring transducers					
Type / WG02	Measuring Range / Readout SI*	Output	Housing / Display	Item No.	Price USD
RLQ-SD-U	0...100% VOC	0 - 10 V	B1	1501-61C0-1001-500	\$200.60
RLQ-W	0...100% VOC	0 - 10 V / 4...20 mA, 1x Changeover contact	B1	1501-61C0-7301-500	\$210.25
RLQ-W-A	0...100% VOC	0 - 10 V / 4...20 mA, 1x Changeover contact	B1, A	1501-61C0-7331-500	\$239.88
RC02-SD-U	0...2000 ppm	0 - 10 V	B1	1501-61A0-1001-200	\$244.08
RC02-W	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact	B1	1501-61A0-7301-200	\$289.16
RC02-W-A	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact	B1, A	1501-61A0-7331-200	\$339.82
RC02-W LCD	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Changeover contact	B2 ■	1501-61B0-7321-200	\$347.15
RTM-CO2-SD-U	0...2000 ppm, 0...+50 °C (+32...+122 °F)*	0 - 10 V	B2	1501-61B2-1001-200	\$267.23
RLQ-CO2-W	0...2000 / 5000 ppm, 0...100% VOC	0 - 10 V / 4...20 mA, 1x Changeover contact	B2	1501-61B1-7301-500	\$436.94
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	\$494.94
RFTM-CO2-W	0...2000 / 5000 ppm 0...100% RH, 0...+50 °C (+32...+122 °F)*	0 - 10 V / 4...20 mA, 1x Changeover contact	B2	1501-61B6-7301-200	\$408.18
RFTM-CO2-W LCD	0...2000 / 5000 ppm 0...100% RH, 0...+50 °C (+32...+122 °F)*	0 - 10 V / 4...20 mA, 1x Changeover contact	B2 ■	1501-61B6-7321-200	\$452.72
RFTM-LQ-CO2-W	0...2000 / 5000 ppm, 0...100% VOC 0...100% RH, 0...+50 °C (+32...+122 °F)*	0 - 10 V / 4...20 mA, 1x Changeover contact	B2	1501-61B8-7301-500	\$479.17
RFTM-LQ-CO2-W LCD	0...2000 / 5000 ppm, 0...100% VOC 0...100% RH, 0...+50 °C (+32...+122 °F)*	0 - 10 V / 4...20 mA, 1x Changeover contact	B2 ■	1501-61B8-7321-500	\$537.17
xx-Modbus					
Measuring Range / Readout Imperial					
RC02-Modbus	0...5000 ppm	RS485	B2	1501-61B0-6001-200	\$317.29
RC02-Modbus LCD	0...5000 ppm	RS485	B2 ■	1501-61B0-6021-200	\$375.31
RLQ-CO2-Modbus	0...5000 ppm, 0...100% VOC	RS485	B2	1501-61B1-6001-500	\$465.10
RLQ-CO2-Modbus LCD	0...5000 ppm, 0...100% VOC	RS485	B2 ■	1501-61B1-6021-500	\$523.09
RFTM-CO2-Modbus	0...5000 ppm 0...100% RH, +32...+122 °F	RS485	B2	1501-61B6-6001-200	\$374.39
RFTM-CO2-Modbus LCD	0...5000 ppm 0...100% RH, +32...+122 °F	RS485	B2 ■	1501-61B6-6021-200	\$432.11
RFTM-CO2-Modbus P	0...5000 ppm, 0...100% RH, +32...+122 °F with potentiometer	RS485	B2	1501-61B6-6501-271	\$414.31
RFTM-CO2-Modbus P LCD	0...5000 ppm, 0...100% RH, +32...+122 °F with potentiometer	RS485	B2 ■	1501-61B6-6521-271	\$472.31
RFTM-LQ-CO2-Modbus	0...5000 ppm, 0...100% VOC 0...100% RH, +32...+122 °F	RS485	B2	1501-61B8-6001-500	\$507.34
RFTM-LQ-CO2-Modbus LCD	0...5000 ppm, 0...100% VOC 0...100% RH, +32...+122 °F	RS485	B2 ■	1501-61B8-6021-500	\$565.33
RC02-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					
RC02-AS	0...3000 ppm	0 - 10 V / 4...20 mA	B1, A	1501-61A0-0686-230	\$234.79
RC02-AS NT ST	0...3000 ppm	0 - 10 V / 4...20 mA	B1, A	1501-61A0-0686-231	\$236.10
RC02-AS NT	0...3000 ppm	0 - 10 V / 4...20 mA	B1, A	1501-61A0-0686-232	\$239.81
RC02-AS UPNT	0...3000 ppm	0 - 10 V / 4...20 mA	B1, A	1501-61A0-0686-233	\$350.03
Note: These units must not be used as safety-relevant devices!					
Housing: B1 = Baldur 1 / B2 = Baldur 2 / A = Traffic-light (5x LED)					



AERASGARD® FINE DUST SENSOR (PM)



APS-SD (Tyr2)

\$481.36



RPS-SD
without display

\$357.42



RFTM-PS-W
without display

\$466.25

RFTM-PS-CO2-W
with display

\$600.82



RFTM-LQ-PS-CO2 - Modbus
with display

\$713.41

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 Range / Readout SI*		PM	CO2	VOC	Display	Item No. Price USD
	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 \$481.36
RPS-SD							(0-10 V)
RPS-SD	–	–	(4x as above)	–	–		1501-2110-1001-000 \$357.42
RFTM-PS-W							(0-10 V / 4...20 mA)
RFTM-PS-W	0...100% RH	0...+50 °C (+32...+122 °F)*	(4x as above)	–	–	W	1501-2116-7301-000 \$466.25
RFTM-PS-W LCD	0...100% RH	0...+50 °C (+32...+122 °F)*	(4x as above)	–	–	W ■	1501-2116-7321-000 \$566.46
RFTM-PS-CO2-W				(switchable)			(0-10 V / 4...20 mA)
RFTM-PS-CO2-W	0...100% RH	0...+50 °C (+32...+122 °F)*	(4x as above)	0...2000 ppm / 0...5000 ppm	–	W	1501-2113-7301-000 \$542.81
RFTM-PS-CO2-W LCD	0...100% RH	0...+50 °C (+32...+122 °F)*	(4x as above)	0...2000 ppm / 0...5000 ppm	–	W ■	1501-2113-7321-000 \$600.82
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!						
Note:	These units must not be used as safety-relevant devices!						
RFTM-PS-Modbus							(Modbus)
RFTM-PS-Modbus	0...100% RH	0...+50 °C (+32...+122 °F)*	0...1000 µg/m³	–	–		1501-2116-6001-200 \$432.44
RFTM-PS-Modbus LCD	0...100% RH	0...+50 °C (+32...+122 °F)*	0...1000 µg/m³	–	–	■	1501-2116-6021-200 \$496.89
RFTM-LQ-PS-CO2-Modbus							(Modbus)
RFTM-LQ-PS-CO2-Modbus	0...100% RH	0...+50 °C (+32...+122 °F)*	0...1000 µg/m³	5000 ppm	0...100 %		1501-2119-6001-500 \$655.42
RFTM-LQ-PS-CO2-Modbus LCD	0...100% RH	0...+50 °C (+32...+122 °F)*	0...1000 µg/m³	5000 ppm	0...100 %	■	1501-2119-6021-500 \$713.41
Output:	Modbus RS485						
Note:	These units must not be used as safety-relevant devices!						

NEW

AERASGARD®
SENSORSRPCO2
without display

\$472.65

A02
without display

\$710.96



AMS02-Modbus LCD

\$1,756.66

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 USD
RPCO2 xx	switchable						
RPCO2	0...2000 ppm / 0...5000 ppm / 0...10000 ppm	0-10 V	4...20 mA	–		3CON-0203-0001-000	\$472.65
RPCO2 LCD	(3x as above)	0-10 V	4...20 mA	–	■	3CON-0206-0001-000	\$537.19
RPCO2-W	(3x as above)	0-10 V	4...20 mA	Changeover contact		3CON-0203-1001-000	\$488.53
RPCO2-W LCD	(3x as above)	0-10 V	4...20 mA	Changeover contact	■	3CON-0206-1001-000	\$554.07
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 USD
A02 xx						
A02-U	0...25 %	0-10 V	–		3CON-0301-0004-000	\$710.96
A02-U LCD	0...25 %	0-10 V	–	■	3CON-0301-1004-000	\$837.07
A02-U/W	0...25 %	0-10 V	Changeover contact		3CON-0304-0004-000	\$736.77
A02-U/W LCD	0...25 %	0-10 V	Changeover contact	■	3CON-0304-1004-000	\$862.87
Note:		This unit must not be used as a safety-relevant device!				

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

Type / WG02	Measuring Range / Readout SI*	PM	Atm. pressure	CO	CO2	VOC	Display	Item no.	Price USD
AMS xx	Humidity/Temp.	[µg/m³]	[mbar]	[ppm]	[ppm]	[%]			
AMS01-Modbus LCD	0...100 % RH –20...+50 °C (–4...+122 °F)*	0...1000 PM 2.5 PM 10	–	0...1000	0...10 000 0...20 000* 0...50 000*	0...100	■	3CON-0107-1005-000	\$1,792.24
AMS02-Modbus LCD	0...100 % RH –20...+50 °C (–4...+122 °F)*	0...1000 PM 2.5 PM 10	500-1150	–	0...10 000 0...20 000* 0...50 000*	0...100	■	3CON-0107-1006-000	\$1,756.66
AMS03-Modbus LCD	0...100 % RH –20...+50 °C (–4...+122 °F)*	0...1000 PM 2.5 PM 10	500-1150	0...1000	0...10 000 0...20 000* 0...50 000*	0...100	■	3CON-0107-1007-000	\$1,899.80
Output:	Modbus RTU *(optional on request)								
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!							



S+S REGELTECHNIK



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.

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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