



S+S REGELTECHNIK

Omni Ray

Power of Automation



AERASGARD®

MODBUS CAPABLE AIR QUALITY SENSORS
AND MEASURING TRANSDUCERS FOR CO₂ AND VOC

GOOD ROOM CLIMATE IS MEASURABLE!

- > Microprocessor controlled
- > Self-calibrating
- > Maintenance-free



PRODUCT RANGE 2020

FÜHLBARE PRÄZISION



AERASGARD® AIR QUALITY FOR CO₂ AND VOC



ACO2 - W
with display

424,30 CHF



ACO2 - SD - U

257,20 CHF



KLQ-SD-U

224,80 CHF



KC02 - SD - U

251,60 CHF



KC02 - W
with display

353,60 CHF

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	1501-3170-1001-200	224,80 CHF
KLQ-W	0...100 % VOC	0 - 10 V / 4...20 mA, 1x Change-over contact	T1	1501-3150-7301-200	234,10 CHF
KC02-SD-U	0...2000 / 5000 ppm	0 - 10 V	T1	1501-3160-1001-200	251,60 CHF
KC02-W	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Change-over contact	T1	1501-3140-7301-200	303,30 CHF
KC02-W DISPLAY	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Change-over contact	T1 ■	1501-3140-7321-200	353,60 CHF
KC02 MODBUS	0...5000 ppm	RS485	T2	1501-8110-6001-200	388,10 CHF
KC02 MODBUS LCD	0...5000 ppm	RS485	T2 ■	1501-8110-6071-200	448,50 CHF

Note: This unit **must not** be used as safety-relevant device!

Housing: T1 = Tyr 1 / T2 = Tyr 2

AERASGARD® On-wall sensor for CO ₂ content					
Type / WG02	Measuring Range	Output	Display	Item No.	Price
ACO2-SD-U	0...2000 / 5000 ppm	0 - 10 V		1501-7110-1001-200	257,20 CHF
ACO2-W	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Change-over contact		1501-7110-7301-200	363,90 CHF
ACO2-W-DISPLAY	0...2000 / 5000 ppm	0 - 10 V / 4...20 mA, 1x Change-over contact		1501-7110-7371-200	424,30 CHF
ACO2 MODBUS	0...5000 ppm	RS485		1501-7110-6001-200	388,10 CHF
ACO2 MODBUS LCD	0...5000 ppm	RS485	■	1501-7110-6071-200	448,50 CHF

Note: This unit **must not** be used as safety-relevant device!

Housing: Tyr 2

AERASGARD® MULTIFUNCTIONAL DUCT SENSORS FOR CO₂, VOC, HUMIDITY AND TEMPERATURE



KTM-CO2-SD-U
measuring transducers

317,50 CHF

KLQ-CO2-W

403,10 CHF



KFTM-LQ-CO2-W
with display

540,00 CHF



KLQ-CO2 MODBUS
with two cable glands

436,70 CHF

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	317,50 CHF
KLQ-CO2-W	0...2000 / 5000 ppm, 0...100 % VOC	0 - 10 V / 4...20 mA, 1x Change-over contact		1501-8111-7301-200	403,10 CHF
KLQ-CO2-W-DISPLAY	0...2000 / 5000 ppm, 0...100 % VOC	0 - 10 V / 4...20 mA, 1x Change-over contact	■	1501-8111-7371-200	450,70 CHF
KFTM-CO2-W	0...2000 / 5000 ppm 0...100 % r.H., -35...+80 °C	0 - 10 V / 4...20 mA, 1x Change-over contact		1501-8116-7301-200	385,70 CHF
KFTM-CO2-W-DISPLAY	0...2000 / 5000 ppm 0...100 % r.H., -35...+80 °C	0 - 10 V / 4...20 mA, 1x Change-over contact	■	1501-8116-7371-200	433,30 CHF
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 Change-over contact		1501-8118-7301-200	492,40 CHF
KFTM-LQ-CO2-W DISPLAY	0...2000 / 5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	0 - 10 V / 4...20 mA, 1x Change-over contact	■	1501-8118-7371-200	540,00 CHF
KLQ-CO2 MODBUS	0...5000 ppm, 0...100 % VOC	RS485		1501-8111-6001-200	436,70 CHF
KLQ-CO2 MODBUS LCD	0...5000 ppm, 0...100 % VOC	RS485	■	1501-8111-6071-200	508,20 CHF
KFTM-CO2 MODBUS	0...5000 ppm 0...100 % r.H., -35...+80 °C	RS485		1501-8116-6001-200	397,80 CHF
KFTM-CO2 MODBUS LCD	0...5000 ppm 0...100 % r.H., -35...+80 °C	RS485	■	1501-8116-6071-200	482,70 CHF
KFTM-LQ-CO2 MODBUS	0...5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	RS485		1501-8118-6001-200	516,70 CHF
KFTM-LQ-CO2 MODBUS LCD	0...5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	RS485	■	1501-8118-6071-200	605,20 CHF

Note: This unit **must not** be used as safety-relevant device!

Housing: Tyr 2

AERASGARD® MULTIFUNCTIONAL ON-WALL SENSORS FOR CO₂, VOC, HUMIDITY AND TEMPERATURE



ATM-CO2-SD-U

324,20 CHF



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

707,30 CHF



ALQ-CO2 MODBUS
with display and
two cable glands

605,20 CHF

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 Ranges	Output	Display	Item No.	Price	
ATM-CO2-SD-U	0...2000 / 5000 ppm -35...+80 °C	0-10 V		1501-7112-1001-200	324,20 CHF	
ALQ-CO2-W	0...2000 / 5000 ppm, 0...100 % VOC	0-10 V / 4...20 mA, 1x Change-over contact		1501-7111-7301-200	494,90 CHF	
ALQ-CO2-W-DISPLAY	0...2000 / 5000 ppm, 0...100 % VOC	0-10 V / 4...20 mA, 1x Change-over contact	■	1501-7111-7371-200	580,70 CHF	
AFTM-CO2-W	0...2000 / 5000 ppm 0...100 % r.H., -35...+80 °C	0-10 V / 4...20 mA, 1x Change-over contact		1501-7116-7301-200	462,90 CHF	
AFTM-CO2-W-DISPLAY	0...2000 / 5000 ppm 0...100 % r.H., -35...+80 °C	0-10 V / 4...20 mA, 1x Change-over contact	■	1501-7116-7371-200	553,10 CHF	
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 Change-over contact		1501-7118-7301-200	590,90 CHF	
AFTM-LQ-CO2-W DISPLAY	0...2000 / 5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	0-10 V / 4...20 mA, 1x Change-over contact	■	1501-7118-7371-200	707,30 CHF	
ALQ-CO2 MODBUS	0...5000 ppm, 0...100 % VOC	RS485		1501-7111-6001-200	519,10 CHF	
ALQ-CO2 MODBUS LCD	0...5000 ppm, 0...100 % VOC	RS485	■	1501-7111-6071-200	605,20 CHF	
AFTM-CO2 MODBUS	0...5000 ppm 0...100 % r.H., -35...+80 °C	RS485		1501-7116-6001-200	483,90 CHF	
AFTM-CO2 MODBUS LCD	0...5000 ppm 0...100 % r.H., -35...+80 °C	RS485	■	1501-7116-6071-200	577,30 CHF	
AFTM-LQ-CO2 MODBUS	0...5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	RS485		1501-7118-6001-200	615,20 CHF	
AFTM-LQ-CO2 MODBUS LCD	0...5000 ppm, 0...100 % VOC 0...100 % r.H., -35...+80 °C	RS485	■	1501-7118-6071-200	725,30 CHF	

Note: This unit **must not** be used as safety-relevant device!

Housing: Tyr2

AERASGARD® ROOM SENSORS

PRECISION IN UNOBTRUSIVE HOUSING DESIGN



FSFTM - CO2 - Modbus
with potentiometer

463,80 CHF



RCO2 - SD - U
(Baldur 1)

217,10 CHF

RLQ - SD - U
(Baldur 1)

184,50 CHF



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

304,50 CHF



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

418,60 CHF

AERASGARD® Room sensors and measuring transducers

Type / WG02	Measuring Range	Output	Housing / Display	Item No.	Price
FSCO2-U	0...2000 ppm	0-10 V	-	1501-9120-1001-162	338,90 CHF
FSTM-CO2-U	0...2000 ppm, 0...+50 °C	0-10 V	-	1501-9122-1001-162	343,70 CHF
RLQ-SD-U	0...100 % VOC	0-10 V	B1	1501-61C0-1001-200	184,50 CHF
RLQ-W	0...100 % VOC	0-10 V / 4...20 mA, 1x Change-over contact	B1	1501-61C0-7301-200	192,80 CHF
RLQ-W-A	0...100 % VOC	0-10 V / 4...20 mA, 1x Change-over contact	B1, A	1501-61C0-7331-200	218,40 CHF
RCO2-SD-U	0...2000 ppm	0-10 V	B1	1501-61A0-1001-200	217,10 CHF
RCO2-W	0...2000 / 5000 ppm	0-10 V / 4...20 mA, 1x Change-over contact	B1	1501-61A0-7301-200	260,80 CHF
RCO2-W-A	0...2000 / 5000 ppm	0-10 V / 4...20 mA, 1x Change-over contact	B1, A	1501-61A0-7331-200	304,50 CHF
RCO2-W-DISPLAY	0...2000 / 5000 ppm	0-10 V / 4...20 mA, 1x Change-over contact	B2 ■	1501-61B0-7321-200	310,80 CHF
RTM-CO2-SD-U	0...2000 ppm, 0...+50 °C	0-10 V	B2	1501-61B2-1001-200	241,40 CHF
RLQ-CO2-W	0...2000 / 5000 ppm, 0...100 % VOC	0-10 V / 4...20 mA, 1x Change-over contact	B2	1501-61B1-7301-200	388,10 CHF
RLQ-CO2-W DISPLAY	0...2000 / 5000 ppm, 0...100 % VOC	0-10 V / 4...20 mA, 1x Change-over contact	B2 ■	1501-61B1-7321-200	438,10 CHF
RFTM-CO2-W	0...2000 / 5000 ppm 0...100 % r.H., 0...+50 °C	0-10 V / 4...20 mA, 1x Change-over contact	B2	1501-61B6-7301-200	351,80 CHF
RFTM-CO2-W DISPLAY	0...2000 / 5000 ppm 0...100 % r.H., 0...+50 °C	0-10 V / 4...20 mA, 1x Change-over contact	B2 ■	1501-61B6-7321-200	401,70 CHF
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 Change-over contact	B2	1501-61B8-7301-200	424,50 CHF
RFTM-LQ-CO2-W DISPLAY	0...2000 / 5000 ppm, 0...100 % VOC 0...100 % r.H., 0...+50 °C	0-10 V / 4...20 mA, 1x Change-over contact	B2 ■	1501-61B8-7321-200	474,50 CHF
FSFTM-CO2-MODBUS	0...5000 ppm, 0...100 % r.H., 0...+50 °C	RS485	-	1501-9226-6001-162	375,80 CHF
FSFTM-CO2-MODBUS P	0...5000 ppm, 0...100 % r.H., 0...+50 °C with potentiometer	RS485	-	1501-9226-6501-282	463,80 CHF
RCO2 MODBUS	0...5000 ppm	RS485	B2	1501-61B0-6001-200	285,10 CHF
RCO2 MODBUS LCD	0...5000 ppm	RS485	B2 ■	1501-61B0-6021-200	335,00 CHF
RLQ-CO2 MODBUS	0...5000 ppm, 0...100 % VOC	RS485	B2	1501-61B1-6001-200	412,40 CHF
RLQ-CO2 MODBUS LCD	0...5000 ppm, 0...100 % VOC	RS485	B2 ■	1501-61B1-6021-200	462,40 CHF
RFTM-CO2 MODBUS	0...5000 ppm 0...100 % r.H., 0...+50 °C	RS485	B2	1501-61B6-6001-200	322,60 CHF
RFTM-CO2 MODBUS LCD	0...5000 ppm 0...100 % r.H., 0...+50 °C	RS485	B2 ■	1501-61B6-6021-200	372,40 CHF
RFTM-CO2 MODBUS P	0...5000 ppm, 0...100 % r.H., 0...+50 °C with potentiometer	RS485	B2	1501-61B6-6501-271	368,60 CHF
RFTM-CO2 MODBUS P LCD	0...5000 ppm, 0...100 % r.H., 0...+50 °C with potentiometer	RS485	B2 ■	1501-61B6-6521-271	418,60 CHF
RFTM-LQ-CO2 MODBUS	0...5000 ppm, 0...100 % VOC 0...100 % r.H., 0...+50 °C	RS485	B2	1501-61B8-6001-200	448,80 CHF
RFTM-LQ-CO2 MODBUS LCD	0...5000 ppm, 0...100 % VOC 0...100 % r.H., 0...+50 °C	RS485	B2 ■	1501-61B8-6021-200	498,80 CHF

Note: This unit **must not** be used as safety-relevant device!

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



S+S REGELTECHNIK



- > 65 employees
- > 500 m² of office / administration space
- > 4000 m² of manufacturing space
- > 800 m² finished parts warehouse
- > 24-hours shipment service
- > Made-to-order production

A PASSION FOR INNOVATION

S+S Regeltechnik defines itself as a flexible and innovative partner for your requirements, from the single device to networked facility 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 reliability and precision.

BROAD PORTFOLIO

Our sensors, thermostats, transducers, hygrometers, guards, detectors and room climate controllers for facility 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.

Omni Ray

Power of Automation

OMNI RAY AG
IM SCHÖRLI 5
8600 DÜBENDORF / SCHWEIZ

TEL. +41 44 802 28 80
FAX +41 44 802 28 28

info@omniray.ch
www.omniray.ch



S+S REGELTECHNIK GMBH

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



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