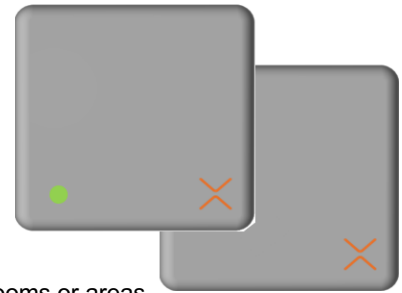


Technical data

SRW-T&H&AQ_VOC-A Series

Air Quality (VOC), Temperature and Humidity

Room Sensors



Description

The SRW-THAQ_VOC-A Sensors are designed to measure temperature, humidity and air quality in rooms or areas.

The Air Quality measures all relevant VOC gases over a temperature control hot plate and provides a humidity compensated Air Quality signal. The special VOC algorithm translates the Room VOC contents into 0...500 Index Points (IP).

The sensors are available with air quality LED- indicator. The sensor outputs are active:

Order Code	Sensor Output	User Interface
• SRW-T&H&AQ_VOC-AA	0...10V	none
• SRW-T&H&AQ_VOC-AA01	0...10V	AQ- LED
• SRW-T&H&AQ_VOC-AB	4...20mA	none
• SRW-T&H&AQ_VOV-AB01	4...20mA	AQ- LED

Technical data

Electrical data

Nominal Voltage	24VAC/DC 50/60 Hz
Nominal Voltage Range	19...29VAC / DC
Power consumption	≤ 0.5W / AC 24V; ≤ 0.95VA / DC 24V
Output Signal	DC 0...10V / 4...20mA
Output Load	Min. 5kΩ / Max. 700Ω
Connection	Terminals 1.5mm ²
Cable Entry	Backside of the housing

Functional Data

Display	None / Air Quality LED Green LED >150IP; Yellow LED = 151...250IP; Red LED <251IP
Warranty	5 Years
Application	Air
Installation Places	Rooms or spaces

Safety

Protection Class	III (safety extra -low voltage)
Degree of Protection	IP20
EMC IEC/EN	60730-1
LVD IEC/EN	60730-2-9
RoHS	RoHS 3, Directive 2015/863
Ambient temperature	-30°C...+80°C
Ambient humidity	5...95% r.h., non-condensing
Maintenance	Maintenance free

Housing

Dimension	108 x 86 x 22 mm
Weight	240 g
Color	White, RAL 9010

Sensor Data's

Sensor	Measuring Range	Accuracy	Long term stability	Time Constant
Temperature	0...50°C	typ. $\pm 0.2^{\circ}\text{C}$ @ 20°C	< 0.3°C / year	< t(63) 2 s
Humidity	0..100% r.h.	typ. $\pm 1.8\%$ within 0...100% r.h.	< 0.25 % r.h. / year	< t(63) 6 s
VOC	0...500 Index Points	$\pm < 15$ VOC Index points	< 20 VOC Index points / LT	< t(63) 10 s

User Interfaces



SRW-T&H&AQ_VOC-Ax

SRW-T&H&AQ_VOC-Ax01

Connection / Security Notes

Terminal Assignments					
	T1	T2	T3	T4	T5
G	24V AC/DC	GND	Temperature	Humidity	Air Quality

Safety Remarks

Observe the following general regulations for engineering and implementation:
 All relevant national and heavy power regulations
 Other country specific regulations
 Country-specific regulations
 Local electrical supply authority regulations
 Schematics, cable listings, dispositions, specification and arrangements from the customer or engineering office in charge
 Third party specifications, e.g., general contractors or constructors.

Disposal Notes:

The device is considered an electronic device for disposal in terms of the EUROPEAN DIRECTIVE 2012/19/EU.
 The device may not be disposed as domestic garbage.
 The device must be disposed through channels provided for this purpose.
 It is mandatory to comply with local currently applying laws and regulations.

Dimensions

