

Product Page

The KNX-Sensor SK30-TC-VOC-R is used for measuring and controlling indoor air parameters

- Air temperature (sensor in the housing) also weighted with external temperature
- VOC level (volatile organic compound) (sensor in the housing)
- Control functions for heating and cooling applications (can be combined)
- Setpoint temperatures for Comfort, Standby, Economy and Protection, selectable via KNX HVAC objects
- Setpoint change via rotary controller and/or objects
- Storage of minimum- and maximum-temperature
- Heat- and frost-alarm
- Limits for temperature
- Fan control by VOC limits and external inputs
- Adaptation for setpoint and maximum temperatures
- Controller output 0...100% or programmable PWM for thermal actuators
- Valve rinse function
- Second temperature controller as auxiliary controller

Rotary controller

Two binary inputs / outputs (floating)

- Light control as switch / button with short, long, double and both function
- Dimmer
- Blind and shutter control
- Programmable Encoder
- Temperature adjustment
- The binary inputs can be configured as outputs (LED / Beeper)
- Rotary controller to change the operational state (comfort / standby) and increase / decrease the setpoint temperature in several steps

The current state of the temperature controller can be indicated by LED's.

- Heating or cooling
- Slow pulsing if controller is active
- Pulse depth represents deviation between actual- and setpoint-temperature
- Display for comfort / standby / night mode configurable

Four logic blocks for the logical link between internal and external signals.

- 10 associated logic inputs / outputs
- Heat- and cooling-request as additionally available signals
- Functions "AND, OR, NOT, XOR" for binary logic
- Functions "+ - *" for 8-bit values
- Function "=" for conditional forwarding of events

Applications

- Detection and control of room temperature
- Detection of VOC level
- Decentralized control for steady KNX-valves or thermal actuators
- Decentralized ventilation control depending on air quality
- Evaluation of external switches and push buttons for switching functions

Article No. 3051335x



SK30-TC-VOC-R
white / anthrazit

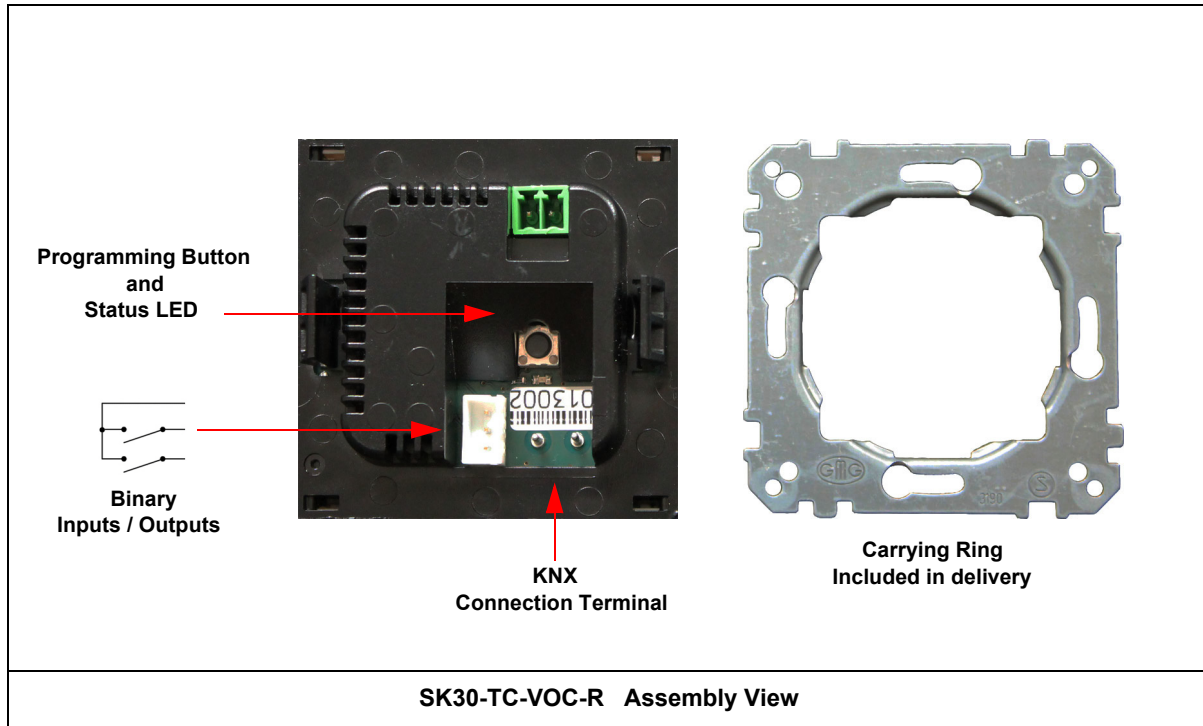
Startup

The KNX Sensor is set up using the ETS (Version 4 or higher) and the applicable application program.

The sensor is delivered unprogrammed.

All functions are programmed and parameterized with ETS.

Please read the ETS instructions.



Assembly

The Sensor **SK30-TC-VOC-R** is intended for mounting in the interior.

The sensor is located in a IP20 plastic housing with 55mm standard frame size.

The sensor is delivered with a carrier frame for mounting in a 68 mm flush-mounted box.

In Case of Bus Voltage Recurrence

All changes made using the help key for the KNX bus are saved if the device has been correctly parameterized..

By using the weighted mixture temperature, the external temperature scaling is set to 0% until an external temperature value is received.

The measuring and control values start with their current values (integral component=0 by PI-Controller).

The ETS parameter settings are retained.

Discharge Program and Reset Sensor

In order to delete the programming (projecting) and to reset the module back to delivery status, it must be switched off (disconnect the KNX bus).

Press and hold the programming button while reconnecting the KNX bus and wait until the programming LED lights up (approx. 5-10 seconds).

Now you can release the programming button.

The module is ready for renewed projecting.

If you release the programming button too early, repeat the aforementioned procedure.

Technical Data

Technical Data - SK30-TC-VOC-R

Measurement	temperature VOC concentration
Control	integrated
Temperature Range	-25 .. +80°C
Resolution	0,02°C
Accuracy	± 0.4°C (5..60°C), else ± 0.8°C
Measurement Range VOC	400 - 10000 ppm , CO2 equivalents
Rotary Controller	Setpoint adjustment (max. ± 5°C)
Binary In / Output	2
Operating Voltage	KNX bus voltage 21 .. 32VDC
Power Consumption	approx. 240mW (at 24VDC)
Environment Temperature KNX-Module	Operating: -25 .. +80°C Storage: -25 .. +80°C
Environment Humidity KNX-Module	10 .. 95% r.H non condensing
Bus Coupler	integrated
Startup with the ETS Version 4 or higher	HLK305
Curcuit Points	KNX 2 pole clamps (red / black)
Protection Class	IP20
Housing KNX-Module	plastic
Dimensions Housing KNX-Module	55mm standard frame size
Article Number	30513351 white 30513352 anthrazit

Imprint

Editor: Arcus-EDS GmbH, Rigaer Str. 88, 10247 Berlin

Responsible for the contents: Hjalmar Hevers, Reinhard Pegelow

Reprinting in part or in whole is only permitted with the prior permission of Arcus-EDS GmbH.

All information is supplied without liability. Technical specifications and prices can be subject to change.

Liability

The choice of the devices and the assessment of their suitability for a specified purpose lie solely in the responsibility of the buyer. Arcus-EDS does not take any liability or warranty for their suitability. Product specifications in catalogues and data sheets do not represent the assurance of certain properties, but derive from experience values and measurements. A liability of Arcus-EDS for damages caused by incorrect operation/projecting or malfunction of devices is excluded. The operator/project developer has to make sure that incorrect operation, planning errors and malfunctions cannot cause subsequent damages.

Safety Regulations

Attention! Installation and mounting must be carried out by a qualified electrician.

The buyer/operator of the facility has to make sure that all relevant safety regulations, issued by VDE, TÜV and the responsible energy suppliers are respected. There is no warranty for defects and damages caused by improper use of the devices or by non-compliance with the operating manuals.

Warranty

We take over guarantees as required by law.

Please contact us if malfunctions occur. In this case, please send the device including a description of the error to the company's address named below.

Manufacturer



Registered Trademarks



The CE trademark is a curb market sign that exclusively directs to authorities and does not include any assurance of product properties.



Registered trademark of the Konnex Association.