

Product Page

The KNX-Sensor SK07-TTHC-4B is used for measuring and controlling indoor air parameters

Sensors not included !

- Air temperature (external connection, PT1000)
- Air temperature and humidity (external connection, SHT11)
- Calculated values absolute humidity, dew point temperature and energy content (enthalpy)
- Primary temperature input also weighted with additional mixing temperature
- 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 objects
- Storage of minimum and maximum temperature
- Heat and frost alarm
- Limits for temperature, humidity
- Fan control via humidity limits and external inputs
- Detecting of dew point temperature with alarm / regulation at risk of condensation
- Adaptation for setpoint and limits temperatures
- Controller output 0..100% or programmable PWM for thermal actuators
- Valve rinse function
- Second temperature controller as auxiliary controller

Four 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)

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 and humidity
- Decentralized control for steady KNX-valves or thermal actuators
- Decentralized ventilation control depending on humidity and air quality
- Detecting of component temperature and temperature control to prevent condensation and structural damage
- Evaluation of external switches and push buttons for switching functions

Article No. 30540780



SK07-TTHC-4B

Startup

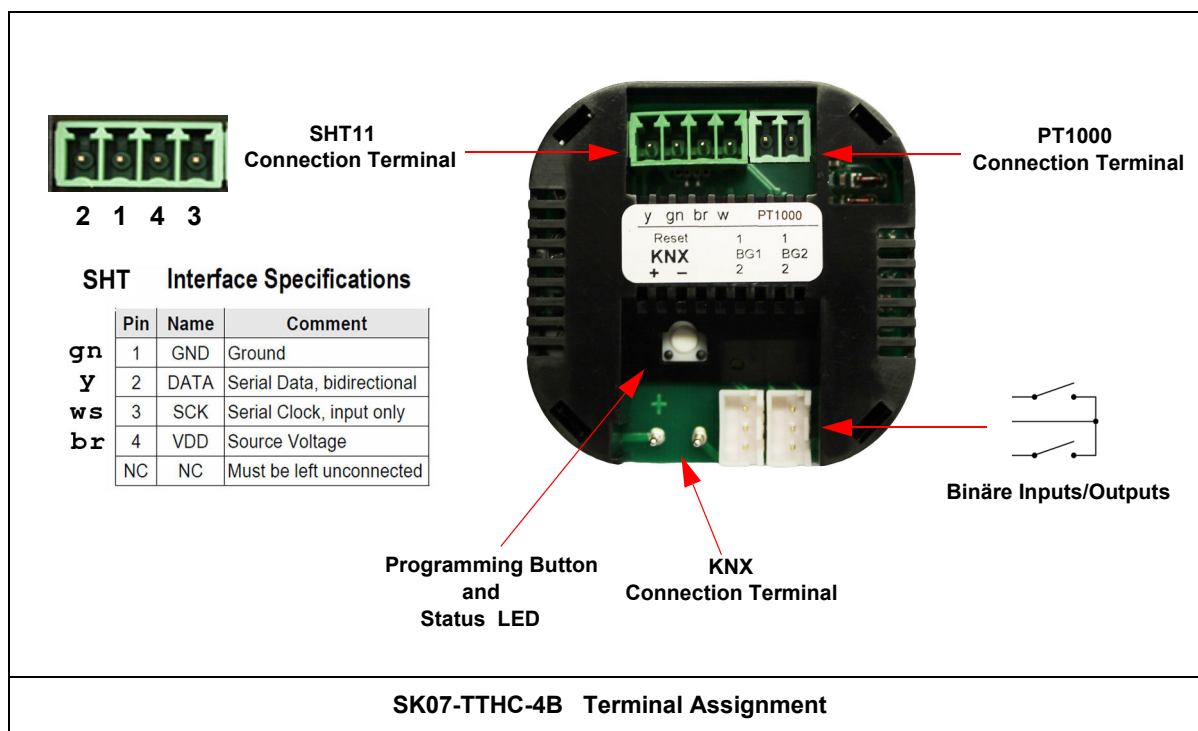
The KNX Sensor is set up using the ETS (Version 4 or higher) and the applicable application program.

Application for ETS from version 3f on request.

The sensor is delivered unprogrammed.

All functions are programmed and parameterized with ETS.

Please read the ETS instructions.



Assembly

The Sensor **SK07-TTHC-4B** is intended for mounting in the interior.

The sensor is located in a IP20 plastic housing 50 x 50 x 20 mm.

The sensor fits into a standard 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 - SK07-TTHC-4B

Measurement	Temperature (PT1000) Temperature / rel. Humidity (SHT11)
Calculated Values	abs. Humidity Dewpoint Temperatur Enthalpy
Controlling	Integrated
Temperature Range (PT1000)	-50 .. +400°C
Accuracy	± 0,3°C (depending on the sensor used)
Resolution	± 0,01°C
Temperature Range (SHT)	-20 .. +80°C
Accuracy	± 0,3°C
Resolution	± 0,01°C
rel. Humidity Range (SHT)	0 .. 100% r.H
Resolution	± 3% r.H (20..80%) at +20°C, else ± 5% r.H
Binary In- / Output	4
Operating Voltage	KNX Bus Voltage 21 .. 32VDC
Power Consumption	approx. 240mW (at 24VDC)
Environment Temperature KNX Module	Storage: -25 .. +85°C Operating: -25 .. +80°C
Environment Humidity KNX Module	0 .. 95% r.H Non Condensing
Bus Coupler	Integrated
Auxiliary Supply	Not Required
Startup with the ETS Version 4 or higher	HLK305
Connection	KNX-2-Pole Clamps (red / black)
Protection Class	IP20
Housing KNX Module	Plastic
Dimensions KNX Module	(50 x 50 x 20) mm (W x H x D) 55mm diagonal (for a standard flush-mounted box)
Article Number	30540780

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.