

Product Page SK30-TTC-IR

The KNX-Sensor SK30-TTC-IR is used for measuring and controlling indoor temperature and surface temperature

- Air temperature (sensor in the housing) also weighted with external temperature
- Additional floor, ceiling or component temperature measured by IR-Radiation
- 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 temperatures
- Fan control by 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

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
- Decentralized control for steady KNX-valves or thermal actuators
- Detection and control of surface temperature of floors and ceilings

Article No. 30548301

SK30-TTC-IR



frame not included in delivery

Startup

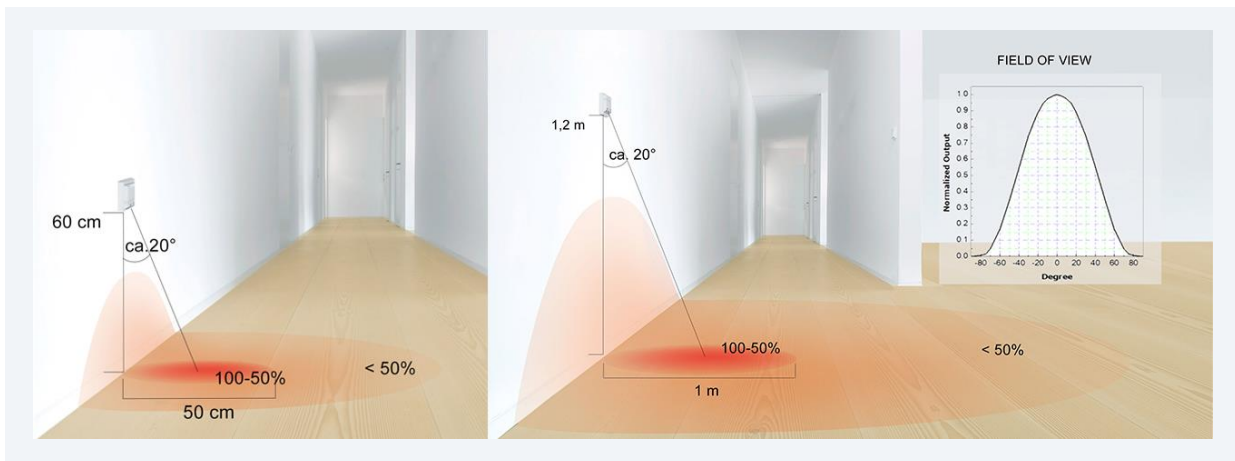
The KNX Sensor is set up using the ETS and the applicable application program. The sensor is delivered unprogrammed.

All functions are programmed and parameterized with ETS Application **HLK305**

Selection	Climate Control	TTHC -- THC with additional Temperature
	Air Quality [CO2, VOC]	None
	Illumination Sensor [LUX]	<input checked="" type="radio"/> No <input type="radio"/> Yes
	Fan Control	<input checked="" type="radio"/> No <input type="radio"/> Yes
	Logic Blocks	None
	Article Key Number	-- 41 -- [TTHC]

General	Primary Temperature Input	T primary / NTC_Housing/Wall
	Input Select	<input checked="" type="radio"/> Temperature & Humidity Sensor <input type="radio"/> PT1000 Probe
	Sending Cycle	30 s
	Send on Change	4.0 °C
	Offset [°C]	0
	Weight of External Temperature Input [%]	0
	Controller Type	None
	Secondary Temperature Input	T secondary / IR
	Settings	Only Measurement
	Input Select	<input type="radio"/> Temperature & Humidity Sensor <input checked="" type="radio"/> PT1000 Probe
	Sending Cycle	30 s
	Send on Change	4.0 °C
	Offset [°C]	0
	Adaptation to the installation height (50 - 120) typical	

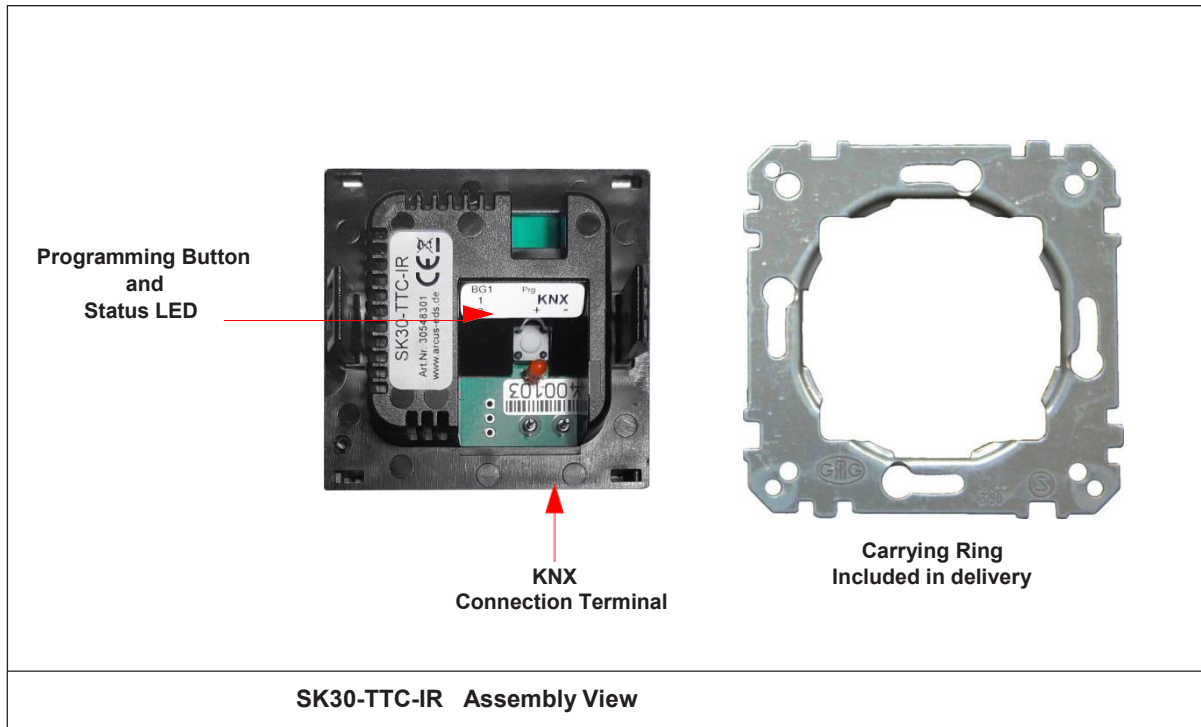
Mounting Situation & Field of View



e1 / Subject to change

Assembly

The Sensor **SK30-TTC-IR** 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-TTC-IR

Measurement	Temperature (NTC, IR)
Calculated Values	temperature
Control	integrated
Temperature Range	-25 .. +80°C
Resolution	0.02°C
Accuracy	± 0.4°C (5..60°C), else ± 0.8°C
Humidity Range	
Resolution	
Accuracy	
Temperature Range (IR)	Room-Temperature + (+/- 20°C)
Resolution	0.02°C
Accuracy	Depends on adjustment
Binary In / Output	
Operating Voltage	KNX busvoltage 21 .. 32VDC
Power Consumption	approx. 240mW (at 24VDC)
Environment Temperature KNX-Module	Operating: -25 ..+80°C Storage: -25 ..+80°C
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
ArticleNumber	30548301

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Imprint

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