

SK01-T-ALTF2

Contacting/Tube Contacting Temperature Sensor

# KNX-Sensor Temperature with (Tube-) Contacting Probe, SK01-T-ALTF 2

The KNX-sensor temperature SK01-T-xx with the PT1000-probe ALTF2 is used for temperature detection of fluid or gaseous media in piping. The integrated KNX-Bus Coupler does not need additional auxiliary voltage. The temperature sensor is attached to the rear side of the terminal box enclosure. Installation on tubes is effected with an endless strap and metal tightener (included in the scope of delivery). The glass-globe-reinforced impact-resistant plastic casing contains the KNX-Bus components and the electronic measuring equipment. It comes with two quick-locking screws.

Several controllers are available in the application software (HVAC, Continuous, PWM) for the temperature. Additional functions include frost alarm, temperature limits, minimum/maximum value and update.

The sensor is configured with ETS (KNX Tool Software) and the application program. Controlling functions such as HVAC, switching threshold and various adjustment parameters are parameterized with ETS.

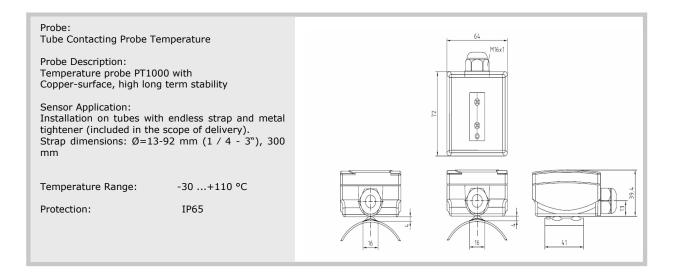
# SK01-T-ALTF 2 KNX-Sensor with (Tube) Contacting Temperature Probe PT1000

# **Application:**

- Temperature detection on piping and tubes (coldwater or hotwater)
- Temperature detection on heating systems for system control

# **Areas of Application:**

- Temperature detection on piping indoors/outdoors and in damp locations
- Decentralized heating regulation for constant KNX-Valves or electro-thermal valves
- Saves maximum and minimum values
- Room Temperature Controller with options Comfort/Standby/Night/Frost Protection
- Direct set point presetting and display of current set point via KNX-Bus
- Various disable options for the controller





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Technical Data	SK01-T-ALTF2
Measurement:	Temperature
Temperature Controller HVAC Modes:	HVAC with increase/decrease options
	HVAC with relative set point adjustment
	HVAC with absolute set point adjustment
Temperature Controller Options:	Comfort Temperature, Stand-by Temperature
	Night Temperature, Frost Protection Temperature
Temperature Controller Controller Output:	Continuous / Switching PI-Controller / Two-Position Controller with hysteresis
Temperature Controller HVAC-Display:	HVAC-Status Byte, HVAC-Status-Bits
Limit Alassa (Harras III assas)	Townson
Limit Alarm (Upper/Lower):	Temperature
Minimum/Maximum Temperature:	Saved minimum/maximum actual temperature
Frost Protection Alarm:	Falling below frost protection temperature
Update:	Temperature
Adjustment Parameters:	Offset adjustment, Output Inversion
Lock and Reset Objects:	Minimum/Maximum Temperature
Send Options:	Do Not Send, Periodic Sending by Adjustments
Temperature Probe:	PT1000 combined with pipe surface (CU)
Environment Temperature:	Storage -20+100°C, Operating -20+80°C (transducer)
Environment Humidity:	095% rH, not condensating
Temperature Range:	-30+110 °C
Accuracy of Temperature:	+/- 0,5 °C
Temperature Resolution:	+/- 0,01 °C
Operating Voltage:	EIB/KNX Bus voltage 24 V DC
Power Consumption ca.:	10 mA at 24V DC
Auxiliary Supply:	
Bus Coupler:	not necessary integrated
Start-up with ETS:	ARC_TFK.VD2 Product: Sensor Temperature IP65
Circuit Points:	EIB-2-pol clamp (red/black)
Protection:	IP65
Fittings:	Installation with endless strap and metal tightener
Casing:	white plastic
	72 mm x 64 mm x 39,4 mm (W x H x D)
Measurements Casing:	72 IIIIII X 04 IIIIII X 39,4 IIIIII (W X II X U)
Article Number:	30101006

Optional Available:			
ALTF 2 PT1000		KNX-Sensor Temperature with Contacting/Tube Contacting Probe	
SK01-T-ALTF 2 PT1000	[co:torcus-odf	-30+110°C	30101006



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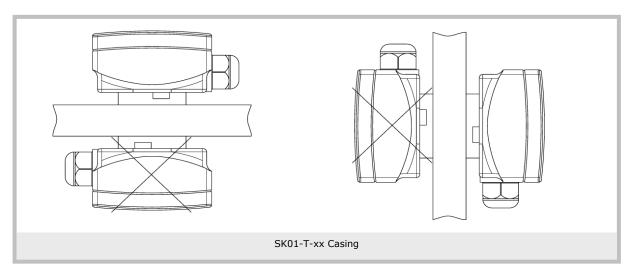
# Start-up:

The KNX Sensor is set up using the ETS (KNX Tool Software) and the applicable application program. The sensor is delivered unprogrammed. All functions are programmed and parameterized with ETS. Please read the ETS instructions.

# **Installation:**

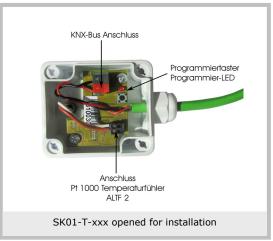
SK01-T-xx sensors are for outdoor use and for (moist) indoor areas. They fulfill protection class IP65. The sensor is fitted onto the wall with two screws. The tube contacting probe is affixed to the tube with a tightening strap.

For mounting positions see below.



The lid can be opened to a  $90^{\circ}$  angle by loosening the screws.

The cable for the external temperature sensor (PT1000) can be detached from the terminal block. When reattaching, it is not necessary to pay attention to the polarity of clamps 1 and 2. After the sensor has been mounted onto the wall or ceiling, lead the KNX bus cable through the hole in the casing (PK screw connection). Remove the bus clamps from the device and connect the cable to it. Place the bus clamps back onto the device. After programming the device, place the lid back on by twisting the screws 90°.



 $\boldsymbol{\rightarrow}$  Be careful not to damage the electronics during the installation process.

# In case of bus line voltage restoration (voltage outage):

All temperature defaults on the KNX/EIB bus are restored. After a line voltage restoration the temperature data is rounded up or down to  $0.5^{\circ}$ C of the actual value. The controller and outputs start with their current values. The HVAC mode byte is set to 0. ETS Parameter adjustments are restored.

# Program de-activate and reset sensor:

If there is an error in programming and the sensor no longer reacts, you can delete the project by pressing the program button. Press the program button down while connecting the EIB bus clamp and wait for the program LED to light up. This takes from 5-10 seconds.



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# **Imprint:**

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