SK01-T-HTF

Sleeve/Cable Temperature Probe

KNX-Sensor Temperature with Sleeve/Cable Probe, SK01-T-HTF

The KNX-Sensor Temperature SK01-T-xx with the PT1000 Probe HTF records the temperature of liquid and gaseous media using an in-built immersion sleeve. The sensor can also be used to measure Teflon and silicon and is ideal for monitoring the temperature of sun collectors and solar panels. The integrated KNX bus coupler does not need additional auxiliary supply. The sensor is enclosed in a V4A stainless steel sheath tube. The durable, reinforced glass-bead synthetic casing with quickfastening screws contains the electronics and the KNX bus components.

Several controllers are available in the application software (HVAC, Continuous, PWM) for the temperature, and a two-position controller is available for humidity. Additional functions include frost alarm, temperature limits, minimum/maximum value and updates.

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

Areas of Application:

- Heating Ducts
- Recording temperature of liquid and gaseous media
- Expanded temperature range with sun collectors and solar panels
- Recording temperature of inner and outer areas and damp room areas
- Decentralized regulation for continuous KNX or electro-thermal valves
- Shows saved 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



Probe:

Sleeve/ Cable Probe

Temperature Probe PT1000, high long-term stability

The PT1000 Probe is enclosed in a V4A steel sheath tube $(\emptyset=6mm)$, on which a cable is flanged. Materials which can be measured in this temperature range are PVC, silicon and Teflon. The length KL (see picture) comes in a standard Customized cable lengths are also available. probe is hermetically sealed and roller-burnished

Sensor application:

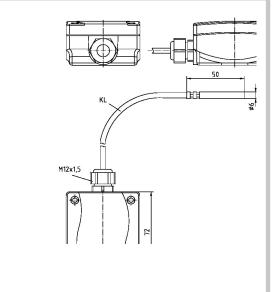
Assembled in pipes and containers using an appropriate immersion sleeve (not included in delivery) and for replacement/repairing of existing systems.

-35...+105°C PVC -50...+180°C Silicon Temperature Measuring Range:

-50...+250°C Teflon

Ambient Temperature Measuring Range:-20...+80°C

IP65 Protective Casing:





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Technical Data	SK01-T-HTF		
Measurement:	Temperature		
Temperature Controller HVAC Modi:	HVAC with increase/decrease options		
	HVAC with relative set point adjustment		
	HVAC with absolute set point adjustment		
Temperature Controller Options:	Comfort Temperature, Stand-by Comfort Temperature, Stand-by		
Tomporator o controller options.	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		
Temperature controller Tivite Bisplay.	Tivito status byte		
Limit Alarm (Upper/Lower):	Temperature, Humidity		
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, embedded in sheath tube IP65		
Environment Temperature:	Storage -20+100°C, Operating -20+80°C (Transducer)		
Environment Humidity:	095% rH not condensed		
Temperature Range:	-35+105 °C (PVC) / -50+180 °C (Silicon) / -50+250°C (Teflon)		
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:	Not necessary		
Bus Coupler:	integrated		
Start-up with ETS:	ARC_TFK.VD2 Product: Sensor Temperature IP65		
Circuit Points:	EIB 2-pol clamps (red/black)		
Protection:	IP65		
Fittings:	Finery, 2 screws		
Casing:	White plastic		
Measurements :	72 mm x 64mm x 39,4 mm (W x H x D)		
Cable:	PVC, Silicon, Teflon depending on type, Standard 1,5m		
Sleeve:	Ø=6mm, Length 50mm, IP65 hermetically sealed and roller- burnished/compressed		
Article Number:	30101002, 30101003, 30101055, 30101056		

Options Available:						
HTF PT1000		KNX-Sensor Temperature with Sleeve/Cable Probe				
SK01-T-HTF PT1000		PVC 1,5m	-35+105°C	30101002		
SK01-T-HTF PT1000		Silicon 1,5m	-50+180°C	30101003		
SK01-T-HTF PT1000		Teflon 1,5m	-50+250°C	30101055		



SK01-T-HTF

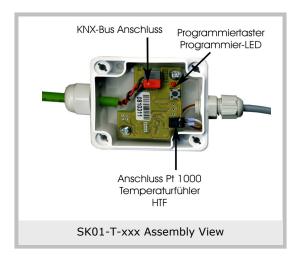
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Start-up:

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.

Assembly:

The SK01-T-xxx sensors are for outdoor and (moist) indoor areas. They fulfill protection class IP65. The sensor is attached to the wall with two screws.



The lid can be opened to a 90° 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°.

ightarrow 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°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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