

KNX-Sensor Temperature with Feed/Surface Probe, SK01-T-OFTF

The KNX-Sensor Temperature SK01-T-xx with the PT1000 probe OUTF records the temperature on flat and slightly uneven surfaces. The integrated KNX bus coupler does not need additional auxiliary supply. The temperature sensor is enclosed in an aluminium cover and is attached with glue to the surface. A screw hole in the sensor head is optional. The durable, reinforced glass-bead synthetic casing with quick-fastening 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 ETS.

Areas of Application:

- Recording surface temperature on flat and slightly uneven surfaces
- Recording temperature on windows, walls and heating units
- Recording surface 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:
Feed/Surface Temperature Probe

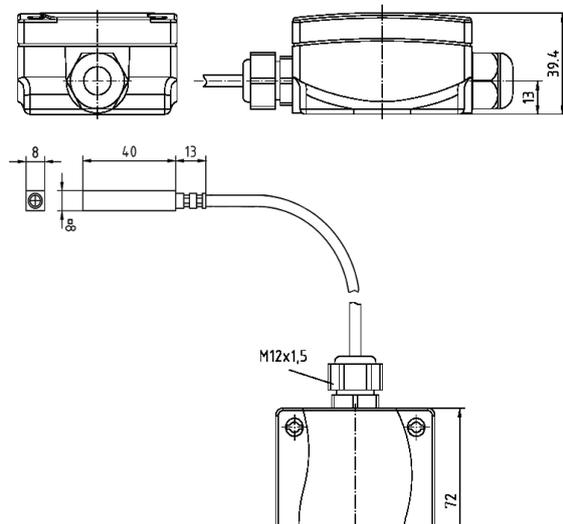
Description:
Temperature probe PT1000 in aluminium casing with square cross section, long-term stability

Sensor Application:
Fixed to flat and slightly uneven surfaces

Temperature Measuring Range: -30...+105°C

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

Protective Casing: IP65



Technical Data	SK01-T-OFTF
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 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
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:	0...95% rH not condensed
Temperature Range:	-30...+105 °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:	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)
Probe Cable:	PVC 1,5m
Sleeve:	8x8x40mm, IP65 hermetically sealed
Article Number:	30101001

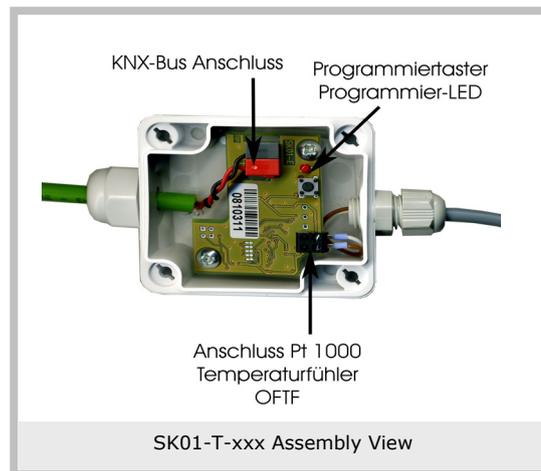
Options Available:			
OFTF PT1000		KNX-Sensor Temperature with Feed/Surface Probe	
SK01-T-OFTF PT1000		PVC 1,5	-30...+105°C

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°.

→ 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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We provide a warranty as required by law. Please contact us in case of malfunction and send the device with a full description of the fault to the address below

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