SK01-T-ETF2

Screw-In/Immersion Temperature Sensor

KNX-Sensor Temperature with Screw-In/Immersion Probe, SK01-T-ETF2

The KNX-sensor temperature SK01-T-xx with the PT1000-probe ETF2 is used for temperature detection of fluid and gaseous media in piping and cases. The integrated KNX-Bus Coupler does not need additional auxiliary voltage. A straight sheath tube encloses the temperature sensor and is mounted onto the casing. The sheath tube is fitted in a stainless steel V4A immersion sleeve (included in delivery). The immersion sleeve is available in different lengths of 50-400mm and materials (also brass see SK01-T-ETF1). 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.



Application:

- In piping systems, in heating technology
- In storage tanks and compact district heating stations
- In warm and cold water installations
- In oil and lubrication cycle systems
- In industry-wide machine, apparatus and plant construction

Areas of Application:

- Recording temperature in pipes, storage tanks and containers
- 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

Probe:

Screw-In/Immersion Probe Temperature with Immersion Sleeve V4A stainless steel

Probe Description:

Temperature probe PT1000, high long term stability

A straight stainless steel V4A sheath tube (\varnothing =6mm) encloses the temperature sensor PT1000 and is fitted in a V4A stainless steel immersion sleeve (max. pressure 40bar).

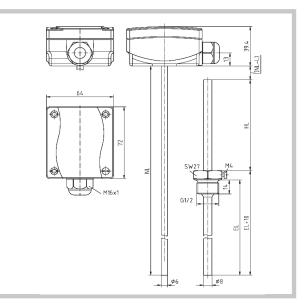
Sensor Application:

Installation in tubes and cases and for replacement/ repairing of already established systems.

Temperature Range: -30...+150°C

Environment Temperature (Transducer):-20...+80°C

Protection: IP65





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Technical Data	SK01-T- ETF2	
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:	Out: Continuous / Switching PI-Controller / Two-Position Controller with hysteresis	
Temperature Controller HVAC-Display:	HVAC-Status Byte, HVAC-Status-Bits	
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, embedded in sheath tube IP65	
Environment Temperature:	Storage -20+100°C, Operating -20+80°C	
Environment Humidity:	095% rH not condensating	
Temperature Range:	-30+150 °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 clamp (red/black)	
Protection:	IP65	
Fittings:	Screw-in thread G1/2	
Casing:	White plastic	
Measurements:	72 mm x 64 mm x 39,4 mm (W x H x D)	
Sleeve:	V4A stainless steel, max. pressure 40bar, length: see Optional Available	
Article Number: 30101020, 30101021, 30101022, 30101023, 301010 30101025, 30101026		

Optional Available:			
ETF 2 PT1000-xx	KNX-Sensor Temperature with Screw-In/Immersion Probe, V4A -30+150°		
ETF 2 PT1000-50		Length immersion sleeve: G1/2 50mm V4A	30101020
ETF 2 PT1000-100	WAR AND STREET	Length immersion sleeve: G1/2 100mm V4A	30101021
ETF 2 PT1000-150		Length immersion sleeve: G1/2 150mm V4A	30101022
ETF 2 PT1000-200	N.	Length immersion sleeve: G1/2 200mm V4A	30101023
ETF 2 PT1000-250	1	Length immersion sleeve: G1/2 250mm V4A	30101024
ETF 2 PT1000-300	1	Length immersion sleeve: G1/2 300mm V4A	30101025
ETF 2 PT1000-400	III.	Length immersion sleeve: G1/2 400mm V4A	30101026



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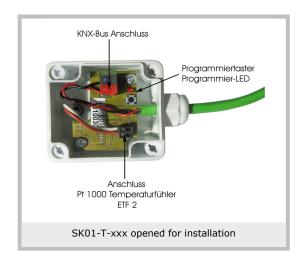
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Start-up:

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 fulfil protection class IP65. The sensor is attached to the pipe/storage tank with screws and an additional clamp screw to ensure firm fitting. 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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