SK01-T-FTF1

Screw-In/Immersion Temperature Sensor

KNX-Sensor Temperature with Screw-In/Immersion Probe, SK01-T-ETF1

The KNX-sensor temperature SK01-T-xx with the PT1000-probe ETF1 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 brass immersion sleeve (included in the scope of delivery). The immersion sleeve is available in different lengths 50-400mm and materials (also stainless steel V4A, see SK01-T-ETF2). The glass-globereinforced 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 (brass)

Probe Description:

Temperature probe PT1000, high long term stability

A straight stainless steel V4A sheath tube (\emptyset =6mm) encloses the temperature sensor PT1000 and is fitted in a brass immersion sleeve (max. pressure 10bar).

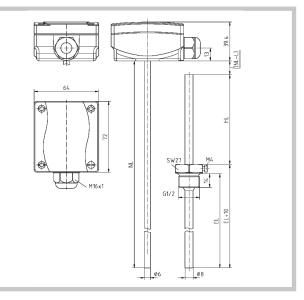
Sensor Application:

Installation in tubes and cases and for replacement/ reparation 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-ETF1		
Measurement:	Temperature		
Towns aughture Controller LIVAC Madage	IN/AC with insurance/designed authors		
Temperature Controller HVAC Modes:	HVAC with increase/decrease options		
	HVAC with relative set point adjustment		
T	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		
emperature Controller HVAC-Display: HVAC-Status Byte, HVAC-Status-Bits			
Temperature controller TivAe Display.	Tivne status byte, Tivne 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		
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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:	Brass, max. pressure 10bar, length: see Optional Available		
	20101012 20101014 20101015 20101016 20101017		
Article Number:	30101013, 30101014, 30101015, 30101016, 30101017, 30101018, 30101019		

Optional Available:			
ETF 1 PT1000-xx	KNX-Sensor Temperature with Screw-In/Immersion Probe, brass -30+150°		
ETF 1 PT1000-50		Length immersion sleeve: G1/2 50mm brass	30101013
ETF 1 PT1000-100	TOTAL MODEL AND	Length immersion sleeve: G1/2 100mm brass	30101014
ETF 1 PT1000-150		Length immersion sleeve: G1/2 150mm brass	30101015
ETF 1 PT1000-200		Length immersion sleeve: G1/2 200mm brass	30101016
ETF 1 PT1000-250	1	Length immersion sleeve: G1/2 250mm brass	30101017
ETF 1 PT1000-300	1	Length immersion sleeve: G1/2 300mm brass	30101018
ETF 1 PT1000-400	M	Length immersion sleeve: G1/2 400mm brass	30101019



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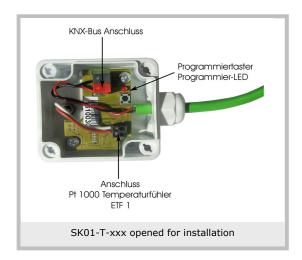
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Start-up:

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.

Assembly:

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°.

→ 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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