

Visualisation		VISU	A
3,5“ TFT Display with Touchscreen		Touch_IT	
Touch_IT SMART	3,5“ TFT Display mit Touchscreen for indoor usage Visualisation and control in KNX systems with integrated infrared temperature probe	IP20	1
Touch_IT C3	3,5“ TFT Display with touchscreen for indoor usage Visualisation and control in KNX systems	IP20	3
Touch_IT C3 IP65	3,5“ TFT Display with touchscreen for outdoor / damp room usage Visualisation and control in KNX systems	IP54/65	5

KNX Sensors/Controller	Application: ARC_TFK.VD2	HVAC	B
KNX Sensors / Controller	Temperature	T	
SK0x-T	Room temperature measurement and control In-wall and on-wall mounted	IP20 IP54/65	1
KNX Sensors / Controller	Temperature / Humidity / Climate / Enthalpy	TFK	
SK0x-TFK	Room climate measurement and control In-wall and on-wall mounted	IP20 IP54/65	9
KNX Sensors / Controller	8x Temperature	TTFK	
SK08-TTFK	Room climate measurement and control in-wall and on-wall mounted Connection for additional temperature sensor	IP20 IP54/65	13
KNX Sensors / Controller	8x Temperature		
SK08-T8	Temperature measurement for 8 channels On-wall mounted, <i>see Rubric E</i>	IP54/65	

KNX Sensorik / Control	Application: HLK305	HVAC	C
B = Binary Contacts, PB = PushButton, R = Rotary Controller, L = Brightness			
CO2 = CO2 Concentration, VOC = VOC Concentration	Additional Functions		
KNX Sensors / Controller	Temperature	B PB R L CO2 VOC	TC
Neo-TC-X	measuring and controlling indoor air parameters, In-wall mounted, Alu housing	X X X X	IP20 2
SK30-TC-X	measuring and controlling indoor air parameters, In-wall mounted	X X X X	IP20 3
SK07-TC-6B	Room temperature measurement and control In-wall mounted	X	IP20 6
SK10L-TC-L	Room temperature measurement and control brightness detection, On-wall mounted	X X	IP54/65 6
SK10-TC-X	Room temperature measurement and control On-wall mounted	X	IP54/65 7
SK08-T8	Temperature measurement for 8 channels On-wall mounted, <i>see Rubric E</i>		IP54/65

KNX Sensorik / Control Application: HLK305							HVAC	C
B = Binary Contacts, PB = PushButton, R = Rotary Controller, L = Brightness								
CO2 = CO2 Concentration, VOC = VOC Concentration							Additional Functions	
KNX Sensors / Controller	Temperature / Humidity		B	PB	R	CO2	VOC	THC
Neo-THC-X	measuring and controlling indoor air parameters, In-wall mounted, Alu housing		X			X	X	IP20 15
SK30-THC-X	measuring and controlling indoor air parameters, In-wall mounted		X	X	X	X	X	IP20 16
SK07-THC-4B	Room climate measurement and control In-wall mounted		X					IP20 19
SK10L-THC-L-AFF	Room climate measurement and control brightness detection, On-wall mounted		X			X		IP54/65 19
SK10-THC-X	Room climate measurement and control On-wall mounted		X			X	X	IP54/65 20
KNX Sensors / Controller	Temperature / Temperature / Humidity			B	PB	R	CO2	VOC
SK30-TTHC-X	measuring and controlling indoor air parameters, In-wall mounted, Alu housing Connection for additional temperature sensor			X			X	X
SK30-TTHC-X	measuring and controlling indoor air parameters, In-wall mounted Connection for additional temperature sensor			X	X	X	X	X
SK07-TTHC-4B	Room climate measurement and control Connection for additional temperature sensor In-wall mounted			X				
SK10L-TTHC-L-AFF	Room climate measurement and control Connection for additional temperature sensor brightness detection, On-wall mounted			X			X	
SK10-TTHC-X	Room climate measurement and control Connection for additional temperature sensor On-wall mounted			X			X	X

KNX Actuators			HVAC	D
KNX Actuators Ventilation Lunos domestic ventilation systems with heat recovery				
KNX-Lunos-Control4-IW	Control of decentralized ventilation systems from company Lunos In-wall mounted		IP20	1
KNX Actuators Heating				
SK08-Ventil4	Control of decentralized valves of heaters On-wall mounted		IP54/65	2

KNX Sensors	Physical and Chemical Instrumentation	S8	E
SK08-T8	Temperature measurement for 8 channels (PT1000) Monitoring and control of temperatures in different locations	T8 IP54/65	1
SK08-WAQ	Water quality pH, ORP (Redox potential) for aquariums, swimming pools, ponds	WAQ IP54/65	2

KNX Sensors	Physical and Chemical Instrumentation	S8	E
SK08-GLBS	Global radiation, spectral range 400 .. 1100 nm Monitoring of solar collectors, control of blinds, shutters etc.	GLBS IP54/65	3
SK08-BFT	Soil moisture and temperature Irrigation control for gardens, greens etc.	BFT IP54/65	3
SK08-BFTLFT	Soil moisture and temperature & acquisition of air temperature and humidity Irrigation control for gardens, greens etc.	BFTLFT IP54/65	3
SK01-S8-F	Ultrasonic fill level measurement system On-wall mounted	F IP54/65	4
REG-S8-F	Ultrasonic fill level measurement system DIN rail mounted	F IP20	4
SK08-AN2	Voltage measurement 2 x 0 .. 12 VDC For sensors with variable voltage outputs (e.g. pressure sensors)	AN2 IP54/65	5

KNX Function Module / Gateways		GW	F
KNX-FM	Free programmable function module / logic module DIN rail mounted	FM IP20	1
KNX-GW-RS232-RS485	KNX to RS232 and RS485 gateway DIN rail mounted Control of multimedia devices and alarm systems	RS232/485 IP20	1
KNX-GW-DMX	KNX to DMX gateway DIN rail mounted Control of LED / RGB lighting systems / DMX512	DMX IP20	2
KNX-GW-MBUS	KNX bus coupling for counter with M-Bus interface On-wall and DIN rail mounted	MBUS IP20 , IP54/65	3

KNX Smart Metering for Pulse (S0) and MBUS Counter		SM	G
SK01-KNX-IMPZ1	1-Channel impuls counter gas, water, electricity On-wall and DIN rail mounted	IMPZ1 IP54/65	2
REG-KNX-IMPZ1	1-Channel impuls counter gas, water, electricity On-wall and DIN rail mounted	IMPZ1 IP20	2
SK01-KNX-IMPZ2	2-Channel impuls counter gas, water, electricity Changeover on two tariffs available. On-wall and DIN rail mounted	IMPZ2 IP54/65	2
REG-KNX-IMPZ2	2-Channel impuls counter gas, water, electricity Changeover on two tariffs available. On-wall and DIN rail mounted	IMPZ2 IP20	2
KNX-GW-MBUS	KNX bus coupling for counter with M-Bus interface (see KNX Function Module / Gateways)	MBUS IP20 , IP54/65	3

KNX Smart Metering with Integrated Meters		SM	G
KNX-IMPZ-WZ-M	Water meter Modularis WZ-M with KNX-IMPZ1 up to 2,5 m ³ /h throughput, calibration included	IMPZ1 IP54/65	4
KNX-WZ-R5.M	Thermal energy meter WZ-R5.M with integrated KNX bus coupling unit up to 2,5 m ³ /h throughput, calibration included	WZ-R5.M IP52/54	5

KNX	Lighting	LUM	H
KNX-LED Driver Unit	KNX 5 channel LED driver RGB and dual white LED voltage: 12VDC/25W or 24VDC/50W Color temperature adjustable, dimmable	LED-DU IP20	2
KNX-LED2L-xxx	KNX light LED 700lm, dual white Color temperature adjustable, dimmable	LED2L IP20	2
KNX-LED2S-xxx	KNX light LED 350lm, dual white Color temperature adjustable, dimmable	LED2S IP20	2
KNX-LED4-xxx	KNX light LED 4 channel RGB + amber Color adjustable, dimmable	LED4 IP20	3
KNX-GW-DMX	KNX to DMX gateway DIN rail mounted Control of LED / RGB lighting systems / DMX512	DMX IP20	4

KNX	System Devices	SYS	I
KNX-Drossel-DR16	Choke to decouple the KNX bus from the supply voltage, 1,6A DIN rail mounted	Drossel IP20	1
SK10L-GPS-SC-L	Time modul timer, astro clock, system time, brightness detection On-wall mounted	GPS IP54/65	1
KNX-GW-IP-2TE	IP gateway to link the ETS (PC software tool) to the KNX bus REG	IP / LAN IP20	1
KNX-IP-Workstation	The mobile unit is equipped with an IP gateway which allows the ETS software to be connected to the KNX devices via Ethernet.	IP-Work IP20	2

VISU

3,5“ TFT Display with Touchscreen

SMART

3,5“ TFT Display with 256K colors and touchscreen for visualisation and control in KNX systems.



- Switching and dimming of lighting
- RGB control with colorchooser
- Display of the switching status in building
- Control of various devices in the KNX-Bus
- Handling of shutters/blinds
- Acoustic and optic alarm functions
- Display of object states as plain text
- Display and setting of heating control parameters
- Control of multi room audio-systems
- Display of temperatures
- Weekly clock timer
- Astronomic clock timer for sunset/sunrise driven controls
- Datalogging and on display diagram facility
- Internal scenes with 32 action objects and programmable delays
- Logic functions can be implemented in a scripting language
- Separate display page for alarm purposes
- Each page and element can be protected by global or dedicated passwords
- Different Layouts, visual styles and standby options
- Many languages available
- Character sizes and styles are selectable
- Possibility for user defined layouts, icons, screensavers etc.



MicroSD Slot
accessible from
the outside

Integrierter infrared
temperature probe

Technical Data

- 3,5" - TFT color display with touchscreen 320 x240 RGB (256K colors)
- 200MHz 32-Bit ARM processor
- **MicroSD Slot (for SD / SDHC cards)
accessible from the outside**
- Mini USB Port
- Linux operating system
- **Integrated infrared temperature probe**

Programming

- ETS programmable
- Additional fast program upload via USB available (ETS Plugin)
- 6 Pages with up to 8 control elements each
- Up to 4 KNX objects per control element
- USB Tool for individual upload of control icons, images, screensavers etc.

Mounting

- Magnetic fixture with metal frame (included) for 60/68mm in-wall mounting
- For swiss systems suitable (Feller)
- Theft protection by hidden headless screw

Environmental conditions

Storage:	-5 .. +60 °C
Operating:	-5 .. +55 °C
Humidity:	max. 90% not condensing

Power supply

Auxiliary power:	9 .. 32 VDC
Consumption:	Activ 1.5 W
	Standby < 0,5 W

VISU	Article	Article Description	Article No.	List Price
Touch_IT	without bevel (81 x 81 x 12) mm			Product Group 1
KNX, in-wall, indoor, IP20	Document: 1100_ex_Touch_IT C3.pdf			
	Touch_IT-SMART-SAE	<p>3,5" Display metal housing Aluminium sandblasted anodized</p> <p>Integrated infrared temperature probe</p> <p>Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60/68 mm)</p>	22310500	396,00 €
	Touch_IT-SMART-SAW	<p>3,5" Display metal housing Aluminium white powder-coated</p> <p>Integrated infrared temperature probe</p> <p>Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60/68 mm)</p>	22310501	414,00 €
	Touch_IT-SMART-SAS	<p>3,5" Display metal housing Aluminium sanded anodized</p> <p>Integrated infrared temperature probe</p> <p>Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60/68 mm)</p>	22310503	416,00 €
	Touch_IT-SMART-SAB	<p>3,5" Display metal housing Aluminium sanded black anodized</p> <p>Integrated infrared temperature probe</p> <p>Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60/68 mm)</p>	22310504	416,00 €

VISU

3,5“ TFT Display with Touchscreen

C3

3,5“ TFT Display with 256K colors and touchscreen for visualisation and control in KNX systems.



- Switching and dimming of lighting
- RGB control with colorchooser
- Display of the switching status in building
- Control of various devices in the KNX-Bus
- Handling of shutters/blinds
- Acoustic and optic alarm functions
- Display of object states as plain text
- Display and setting of heating control parameters
- Control of multi room audio-systems
- Display of temperatures
- Weekly clock timer
- Astronomic clock timer for sunset/sunrise driven controls
- Datalogging and on display diagram facility
- Internal scenes with 32 action objects and programmable delays
- Logic functions can be implemented in a scripting language
- Separate display page for alarm purposes
- Each page and element can be protected by global or dedicated passwords
- Different Layouts, visual styles and standby options
- Many languages available
- Character sizes and styles are selectable
- Possibility for user defined layouts, icons, screensavers etc.

**Technical Data**

- 3,5" - TFT color display with touchscreen 320 x240 RGB (256K colors)
- 200MHz 32-Bit ARM processor
- MicroSD Slot (for SD / SDHC cards)
- Mini USB Port
- Linux operating system

Programming

- ETS programmable
- Additional fast program upload via USB available (ETS Plugin)
- 6 Pages with up to 8 control elements each
- Up to 4 KNX objects per control element
- USB Tool for individual upload of control icons, images, screensavers etc.

Mounting

- Magnetic fixture with metal frame (included) for 60/68mm in-wall mounting
- For swiss systems suitable (Feller)
- Theft protection by hidden headless screw

Environmental conditions

Storage:	-5 .. +60 °C
Operating:	-5 .. +55 °C
Humidity:	max. 90% not condensing

Power supply

Auxiliary power:	9 .. 32 VDC
Consumption:	Activ 1.5 W
	Standby < 0,5 W

VISU	Article	Article Description	Article No.	List Price
Touch_IT	without bevel (81 x 81 x 8) mm		Product Group 1	
KNX, in-wall, indoor, IP20	Document: 1100_ex_Touch_IT C3.pdf			
	Touch_IT-C3-SAE	<p>3,5" Display metal housing Aluminium sandblasted anodized</p> <p>Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60/68 mm).</p>	22310300	398,00 €
	Touch_IT-C3-SAW	<p>3,5" Display metal housing Aluminium white powder-coated</p> <p>Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60/68 mm).</p>	22310301	414,00 €
	Touch_IT-C3-SAS	<p>3,5" Display metal housing Aluminium sanded anodized</p> <p>Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60/68 mm)</p>	22310303	416,00 €
	Touch_IT-C3-SAB	<p>3,5" Display metal housing Aluminium sanded black anodized</p> <p>Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60/68 mm)</p>	22310304	416,00 €

VISU	Article	Article Description	Article No.	List Price
Touch_IT	with bevel (82 x 82 x 8) mm		Product Group 1	
KNX, in-wall, indoor, IP20	Document: 1100_ex_Touch_IT C3.pdf			
	Touch_IT-C3-AE	<p>3,5" Display metal housing Aluminium sandblasted anodized</p> <p>Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60/68 mm).</p>	22310200	396,00 €
	Touch_IT-C3-AW	<p>3,5" Display metal housing Aluminium white powder-coated</p> <p>Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60/68 mm).</p>	22310201	414,00 €

VISU	Article	Article Description	Article No.	List Price
Touch_IT	IP54/65		Product Group 1	
KNX, on-wall, outdoor / damp room, IP54/65	Document: 1100_ex_Touch_IT C3.pdf			
	Touch_IT-C3-AE-IP65	<p>3,5" Display for on-wall mounting 120 x 80 x 48 mm Aluminium anodized, plastic subshell</p> <p>For indoor / outdoor and damp room IP54/65</p>	22310265	437,00 €

KNX-Sensors Temperature

Sensor: PT1000

T

Sensors with integrated KNX-Bus coupler for measuring and regulating temperature.
No auxiliary voltage necessary.

Product Data Base: **ARC_TFK**Application Description: **100_ex_APB_SK0x-Txxx.pdf**

- ETS Application:
- Measured values of temperature
 - PI or two-position controller for temperature with steady or PWM output
 - Various operating methods for temperature control: relative RTC, absolute RTC, standard
 - Maximum limit alarm with presetting limit via KNX Bus
 - Minimum / maximum temperature with reset input
 - Adjustable frost protection alarm
 - Adjustment of all standards and limits
 - Actual value adjustment for temperature

A

SK01-T	Article	Article Description	Article No.	List Price
SK01 without Temperature Probe				Product Group 1
KNX, on-wall, indoor/outdoor, IP54/65		Document: 2101_ex_SK01-T.pdf		
	SK01-T	KNX Sensor / Controller Temperature Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +200 °C Plastic housing: (72 x 64 x 40) mm Without temperature probe	30101000	143,00 €
SK01 with Surface Contacting Probe				Product Group 1
KNX, on-wall, indoor/outdoor, IP54/65		Document: 2102_ex_SK01-T-OFTF.pdf		
	SK01-T-OFTF	KNX Sensor / Controller Temperature Surface-Contacting probe, square, for flat surfaces. The aluminium casing of the PT1000 temperature probe is attached to the surface with glue. Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +105 °C Connecting cable: PVC 1,5 m Plastic housing: (72 x 64 x 40) mm	30101001	161,90 €

SK01-T	Article	Article Description	Article No.	List Price
SK01 with Sleeve Probe				Product Group 1
KNX, on-wall, indoor/outdoor, IP54/65		Document: 2103_ex_SK01-T-HTF.pdf		
<p>KNX Sensor / Controller Temperature With sleeve probe (PT1000) for temperature detection in liquid and gaseous media using an immersion sleeve.</p> <p>Probe: V4A stainless steel, sleeve sensor, round , rolled stamped (protected from humidity) 50 mm, Ø 6 mm.</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room, IP54/65</p>				
	SK01-T-HTF PVC 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C Connecting cable: PVC 1,5 m IP54/65	30101002	154,75 €
	SK01-T-HTF Silicone 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +180 °C Connecting cable: Silicone 1,5 m IP54/65	30101003	159,10 €
	SK01-T-HTF PTFE 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +200 °C Connecting cable IP68: PTFE 1,5 m IP54/65	30101055	171,90 €
SK01 with Contacting / Tube Contacting Probe				Product Group 1
KNX, on-wall, indoor/outdoor, IP54/65		Document: 2104_ex_SK01-T-ALTF1.pdf		
<p>KNX Sensor / Controller Temperature with axial probe tube for temperature detection of liquid and gaseous media on pipes and tubes.</p> <p>Installation on pipe with endless straps and metal tightener (included). Strap dimensions: Ø 13-92 mm (1/4 - 3"), 300 mm (included in delivery)</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room, IP54/65</p>				
	SK01-T-ALTF1 PVC 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C Connecting cable: PVC 1,5 m IP54/65	30101004	157,00 €
	SK01-T-ALTF1 Silicone 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +180 °C Connecting cable: Silicone 1,5 m IP54/65	30101005	158,10 €

SK01-T	Article	Article Description	Article No.	List Price
SK01 with Tube Contacting Probe		Product Group 1		
KNX, indoor/outdoor, IP54/65		Document: 2105_ex_SK01-T-ALTF2.pdf		
	SK01-T-ALTF2	<p>KNX Sensor / Controller Temperature with contacting probe (PT1000) on the rear side of the terminal box, used for temperature detection of liquids and gaseous media in pipes and tubes. Installation on tubes with endless strap and metal tightener (included).</p> <p>Strap dimensions: Ø 13-92 mm (1/4 - 3"), 300 mm</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +110 °C</p> <p>Plastic housing: (72 x 64 x 40) mm</p>	30101006	160,10 €
SK01 with External Probe		Product Group 1		
KNX, onwall, outdoor/damp room, IP54/65		Document: 2106_ex_SK01-T-ATF2.pdf		
	SK01-T-ATF2	<p>KNX Sensor / Controller Temperature The PT1000 probe is enclosed in a V4A stainless steel sheath tube (60 mm, Ø 6 mm).</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +90 °C</p> <p>Plastic housing: (72 x 64 x 40) mm</p>	30101007	170,80 €
SK01 with Screw-in / Immersion Probe Cable Connection		Product Group 1		
KNX, on-wall, indoor/outdoor, IP54/65		Document: 2107_ex_SK01-T-ESTF.pdf		
<p>KNX Sensor / Controller Temperature The PT1000 probe is in a brass sheath tube (Ø 8 mm, max. pressure 40 bar) made of V4A steel with cable connection.</p> <p>Used for temperature detection in liquid or gaseous media, in heating plants, circulation and climate technology.</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room, IP54/65</p>				
	SK01-T-ESTF 50 mm PVC 1,5 m	<p>Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C Probe: G 1/2", 50 mm</p>	30101008	171,50 €
	SK01-T-ESTF 100 mm PVC 1,5 m	<p>Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C Probe: G 1/2", 100 mm</p>	30101009	172,50 €
	SK01-T-ESTF 50 mm Silicone 1,5 m	<p>Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +180 °C Probe: G 1/2", 50 mm</p>	30101010	172,50 €
	SK01-T-ESTF 100 mm Silicone 1,5 m	<p>Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +180 °C Probe: G 1/2", 100 mm</p>	30101011	173,60 €

SK01-T	Article	Article Description	Article No.	List Price																												
SK01 with Screw-in / Immersion Probe, Brass Immersion Sleeve		Product Group 1																														
KNX, indoor/outdoor, IP54/65		Document: 2108_ex_SK01-T-ETF1.pdf																														
<p>KNX Sensor / Controller Temperature The PT1000 probe is in a brass sheath tube (G 1/2“, Ø 6 mm), which is inside a brass immersion sleeve (Ø 8 mm, max. pressure 10 bar). Used for temperature detection in liquid or gaseous media, in heating plants, circulation and climate technology.</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room, IP54/65</p>																																
 <table> <tbody> <tr> <td>SK01-T-ETF1 50mm brass</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101013</td> <td>176,75 €</td> </tr> <tr> <td>SK01-T-ETF1 100mm brass</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101014</td> <td>177,95 €</td> </tr> <tr> <td>SK01-T-ETF1 150mm brass</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101015</td> <td>178,60 €</td> </tr> <tr> <td>SK01-T-ETF1 200mm brass</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101016</td> <td>180,20 €</td> </tr> <tr> <td>SK01-T-ETF1 250mm brass</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101017</td> <td>181,15 €</td> </tr> <tr> <td>SK01-T-ETF1 300mm brass</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101018</td> <td>183,95 €</td> </tr> <tr> <td>SK01-T-ETF1 400mm brass</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101019</td> <td>185,15 €</td> </tr> </tbody> </table>					SK01-T-ETF1 50mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101013	176,75 €	SK01-T-ETF1 100mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101014	177,95 €	SK01-T-ETF1 150mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101015	178,60 €	SK01-T-ETF1 200mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101016	180,20 €	SK01-T-ETF1 250mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101017	181,15 €	SK01-T-ETF1 300mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101018	183,95 €	SK01-T-ETF1 400mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101019	185,15 €
SK01-T-ETF1 50mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101013	176,75 €																													
SK01-T-ETF1 100mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101014	177,95 €																													
SK01-T-ETF1 150mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101015	178,60 €																													
SK01-T-ETF1 200mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101016	180,20 €																													
SK01-T-ETF1 250mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101017	181,15 €																													
SK01-T-ETF1 300mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101018	183,95 €																													
SK01-T-ETF1 400mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101019	185,15 €																													

SK01 with Screw-in Immersion Probe, Immersion Sleeve V4A		Product group 1																														
KNX, indoor/outdoor, IP54/65		Document: 2109_ex_SK01-T-ETF2.pdf																														
<p>KNX Sensor / Controller Temperature The PT1000 probe is in a V4A steel sheath tube (G 1/2“, Ø 6 mm), which is inside a V4A immersion sleeve (Ø 8 mm, max. pressure 40 bar). Used for temperature detection in liquid or gaseous media, in heating plants, circulation and climate technology.</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room, IP54/65</p>																																
 <table> <tbody> <tr> <td>SK01-T-ETF2 50mm V4A</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101020</td> <td>181,90 €</td> </tr> <tr> <td>SK01-T-ETF2 100mm V4A</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101021</td> <td>184,73 €</td> </tr> <tr> <td>SK01-T-ETF2 150mm V4A</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101022</td> <td>187,10 €</td> </tr> <tr> <td>SK01-T-ETF2 200mm V4A</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101023</td> <td>189,20 €</td> </tr> <tr> <td>SK01-T-ETF2 250mm V4A</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101024</td> <td>190,50 €</td> </tr> <tr> <td>SK01-T-ETF2 300mm V4A</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101025</td> <td>196,10 €</td> </tr> <tr> <td>SK01-T-ETF2 400mm V4A</td> <td>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C</td> <td>30101026</td> <td>197,90 €</td> </tr> </tbody> </table>					SK01-T-ETF2 50mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101020	181,90 €	SK01-T-ETF2 100mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101021	184,73 €	SK01-T-ETF2 150mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101022	187,10 €	SK01-T-ETF2 200mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101023	189,20 €	SK01-T-ETF2 250mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101024	190,50 €	SK01-T-ETF2 300mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101025	196,10 €	SK01-T-ETF2 400mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101026	197,90 €
SK01-T-ETF2 50mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101020	181,90 €																													
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SK01-T	Article	Article Description	Article No.	List Price
SK01 with Screw-in Immersion Probe, Immersion Sleeve with Extended Shaft V4A				Product Group 1
KNX, indoor/outdoor, IP54/65		Document: 2110_ex_SK01-T-ETF3.pdf		
<p>KNX Sensor / Controller Temperature The PT1000 probe is in a V4A steel sheath tube (G 1/2“, Ø 6 mm), which is inside a V4A stainless steel immersion sleeve (max. pressure 40 bar). Installed using pipes and cases with the immersion sleeve (included).</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room, IP54/65</p>				
	SK01-T-ETF3 50mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101027	199,00 €
	SK01-T-ETF3 100mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101028	199,60 €
	SK01-T-ETF3 150mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101029	200,85 €
	SK01-T-ETF3 200mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101030	202,40 €
	SK01-T-ETF3 250mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101031	203,50 €
	SK01-T-ETF3 300mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101032	207,10 €
	SK01-T-ETF3 400mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101033	209,40 €
SK01 with Screw-in/Immersion Probe with Ext. Shaft with NeckTube for Quick Responsivity				Product Group 1
KNX, indoor/outdoor, IP54/65		Document: 2111_ex_SK01-T-ETF7.pdf		
<p>KNX Sensor / Controller Temperature Temperature probe (PT1000) with neck tube and plain tapered sheath tube, very quick response time, especially suitable for very swift temperature and control processes such as hot water systems. Pipe length: 25 mm Pipe measurements: Ø 6 mm, plain tapered Ø 4 mm Protective material: stainless steel</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room, IP54/65</p>				
	SK01-T-ETF7 100mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C Probe: G 1/2", 100 mm	30101034	265,30 €
	SK01-T-ETF7 150mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C Probe: G 1/2", 150 mm	30101035	267,05 €
	SK01-T-ETF7 250mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C Probe: G 1/2", 250 mm	30101036	269,65 €

SK01-T	Article	Article Description	Article No.	List Price																												
SK01 with Duct/Air Duct Probe incl. Mounting Flange V4A				Product Group 1																												
KNX, indoor/outdoor, IP54/65		Document: 2112_ex_SK01-T-KTF1.pdf																														
<p>KNX Sensor / Controller Temperature</p> <p>The PT1000 probe is in a V4A stainless steel sheath tube (Ø 6 mm). Used in air ducts and heating and climate technology. The boxes are mounted onto air ducts with a plastic sleeve and 2 screws.</p> <p>Plastic housing: (72 x 64 x 40) mm Operating temp.: -25 .. +80 °C For indoor / outdoor and damp room, IP54/65</p>																																
 <table border="1"> <tbody> <tr> <td>SK01-T-KTF1 50mm V4A</td> <td>Measured temperature range: Probe: -30 .. +150 °C 50 mm</td> <td>30101037</td> <td>174,10 €</td> </tr> <tr> <td>SK01-T-KTF1 100mm V4A</td> <td>Measured temperature range: Probe: -30 .. +150 °C 100 mm</td> <td>30101038</td> <td>174,50 €</td> </tr> <tr> <td>SK01-T-KTF1 150mm V4A</td> <td>Measured temperature range: Probe: -30 .. +150 °C 150 mm</td> <td>30101039</td> <td>175,00 €</td> </tr> <tr> <td>SK01-T-KTF1 200mm V4A</td> <td>Measured temperature range: Probe: -30 .. +150 °C 200 mm</td> <td>30101040</td> <td>175,62 €</td> </tr> <tr> <td>SK01-T-KTF1 250mm V4A</td> <td>Measured temperature range: Probe: -30 .. +150 °C 250 mm</td> <td>30101041</td> <td>178,10 €</td> </tr> <tr> <td>SK01-T-KTF1 300mm V4A</td> <td>Measured temperature range: Probe: -30 .. +150 °C 300 mm</td> <td>30101042</td> <td>179,80 €</td> </tr> <tr> <td>SK01-T-KTF1 400mm V4A</td> <td>Measured temperature range: Probe: -30 .. +150 °C 400 mm</td> <td>30101043</td> <td>182,10 €</td> </tr> </tbody> </table>					SK01-T-KTF1 50mm V4A	Measured temperature range: Probe: -30 .. +150 °C 50 mm	30101037	174,10 €	SK01-T-KTF1 100mm V4A	Measured temperature range: Probe: -30 .. +150 °C 100 mm	30101038	174,50 €	SK01-T-KTF1 150mm V4A	Measured temperature range: Probe: -30 .. +150 °C 150 mm	30101039	175,00 €	SK01-T-KTF1 200mm V4A	Measured temperature range: Probe: -30 .. +150 °C 200 mm	30101040	175,62 €	SK01-T-KTF1 250mm V4A	Measured temperature range: Probe: -30 .. +150 °C 250 mm	30101041	178,10 €	SK01-T-KTF1 300mm V4A	Measured temperature range: Probe: -30 .. +150 °C 300 mm	30101042	179,80 €	SK01-T-KTF1 400mm V4A	Measured temperature range: Probe: -30 .. +150 °C 400 mm	30101043	182,10 €
SK01-T-KTF1 50mm V4A	Measured temperature range: Probe: -30 .. +150 °C 50 mm	30101037	174,10 €																													
SK01-T-KTF1 100mm V4A	Measured temperature range: Probe: -30 .. +150 °C 100 mm	30101038	174,50 €																													
SK01-T-KTF1 150mm V4A	Measured temperature range: Probe: -30 .. +150 °C 150 mm	30101039	175,00 €																													
SK01-T-KTF1 200mm V4A	Measured temperature range: Probe: -30 .. +150 °C 200 mm	30101040	175,62 €																													
SK01-T-KTF1 250mm V4A	Measured temperature range: Probe: -30 .. +150 °C 250 mm	30101041	178,10 €																													
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SK01-T-KTF1 400mm V4A	Measured temperature range: Probe: -30 .. +150 °C 400 mm	30101043	182,10 €																													

SK01-T	Article	Article Description	Article No.	List Price
SK01 with Pendulum Room Probe		Product Group 1		
KNX, on-wall, indoor/outdoor, IP54/65	Document: 2113_ex_SK01-T-RPTF1.pdf			
	SK01-T-RPTF1	<p>KNX Sensor / Controller Temperature</p> <p>Temperature probe PT1000 is in sheath tube. Installation in rooms with a high ceiling with a suspended sensor.</p> <p>Probe: 100 mm, M12 / 1,5 mm Operating temperature: -25 .. +80 °C Measured temperature range: -5 .. +60 °C Connecting cable: PVC 2 m</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room IP54/65</p>	30101050	191,50 €
SK01 with Pendulum Room Probe (Globe Thermometer)		Product Group 1		
KNX, on-wall, indoor/outdoor, IP54/65	Document: 2114_ex_SK01-T-RPTF2.pdf			
	SK01-T-RPTF2	<p>KNX Sensor / Controller Temperature</p> <p>Temperature probe PT1000 is in a black plastic sphere (Ø 50 mm) Dark radiation probe detects radiation and radiation heat. Installation in rooms with high ceilings with suspended sensor.</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -5 .. +60 °C Connecting cable: PVC 2 m</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room IP54/65</p>	30101051	189,50 €

SK02-T	Article	Article Description	Article No.	List Price
SK02		Temperature probe integrated in box	Product Group 1	
KNX, on-wall, indoor, IP20		Document: 2115_ex_SK02-T.pdf		
	SK02-T	<p>KNX Sensor / Controller Temperature inside box.</p> <p>Use: detecting and controlling room temperature in homes, hotels, offices, exhibition areas and schools.</p> <p>Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C</p> <p>Plastic housing: (71 x 71 x 25) mm For in-wall mounting in dry interiors IP20</p>	30102201	156,00 €

SK03-T	Article	Article Description	Article No.	List Price
SK03		Temperature probe integrated in box	Product Group 1	
KNX, in-wall, indoor, IP20		Document: 2116_ex_SK03-T.pdf		
<p>KNX Sensor / Controller Temperature inside box.</p> <p>Use: detecting and controlling room temperature in homes, hotels, offices, exhibition areas and schools.</p> <p>Mounted using 2 spring clips in cable ring (included) for a 68mm in-wall pattress. Compatible with switching systems (e.g. Gira, Merten) in standard 55 mm.</p> <p>For in-wall mounting in dry interiors, IP20</p>				
	SK03-T	<p>Plastic housing: white Frame: 55 mm</p> <p>Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C</p> <p>For in-wall mounting in dry interiors IP20</p>	30103201	153,00 €
	SK03-T	<p>Plastic housing: anthrazit Frame: 55 mm</p> <p>Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C</p> <p>For in-wall mounting in dry interiors IP20</p>	30103202	153,00 €

KNX-Sensors Temperature / Humidity / Climate**Sensor: Sensirion SHT11/71****TFK**

Sensors with integrated KNX bus coupler for measuring and regulating temperature and humidity.
 No auxiliary voltage necessary.

Product Data Base: **ARC_TFK**Application Description: **100_ex_APB_SK0x-Txxx.pdf**

- ETS Application:
- Measured values of temperature and relative humidity (Sensirion-Sensor)
 - PI or two-position controller for temperature with steady or PWM output
 - Two-position controller for relative humidity
 - Various operating methods for temperature control: relative RTC, absolute RTC, standard
 - Maximum limit alarm with presetting via KNX Bus: humidity, temperature
 - Minimum / maximum temperature saved
 - Adjustable frost protection alarm
 - Dew point alarm and dew point control
 - Adjustment of all standards and limits
 - Text displayed when entering / leaving the comfort field
 - Values calculated: absolute humidity, dew point temperature, enthalpy
 - Actual value adjustment for temperature and relative humidity

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SK01-TFK	Article	Article Description	Article No.	List Price
SK01 with External Probe			Product Group 1	
KNX, on-wall, indoor/outdoor, IP54/65	Document: 2201_ex_SK01-TFK-AFF.pdf			
	SK01-TFK -AFF	<p>KNX Sensor / Controller Temperature / Humidity / Climate</p> <p>The probe is protected from dust by a poroplast protective coating.</p> <p>Application: building automation, refrigeration, airconditioning and ventilation systems, clean rooms, greenhouses, etc.</p> <p>Probe length: 45 mm Operating temperature: -25 .. +80 °C Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H.</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room IP54/65</p>	30301053	222,00 €

SK01-TFK	Article	Article Description	Article No.	List Price
SK01 with Pendulum Room Probe				Product Group 1
KNX, on-wall, indoor/outdoor, IP54/65		Document: 2202_ex_SK01-TFK-RPFF-MMF.pdf		
KNX Sensor / Controller Temperature / Humidity / Climate Application: building automation, refrigeration, airconditioning and clean room technology, greenhouses, halls with high ceilings. Installation in rooms with high ceilings with the sensor suspended from the ceiling. For indoor / outdoor and damp room, IP54/65				
	SK01-TFK -RPFF	<p>The probe is protected from dust by a poroplast protective coating and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm Connecting cable: PVC 2 m</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +80 °C Measured humidity range: 0 .. 95% r.H.</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room IP54/65</p>	30301054	264,00 €
	SK01-TFK -RPFF -MMF	<p>The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm Connecting cable: PVC 2 m</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +80 °C Measured humidity range: 0 .. 95% r.H.</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room IP54/65</p>	30301056	297,00 €

SK01-TFK	Article	Article Description	Article No.	List Price
SK01 with Duct Probe		Product Group 1		
KNX, indoor/outdoor, IP54/65		Document: 2203_ex_SK01-TFK-KFF.pdf		
	SK01-TFK -KFF	<p>KNX Sensor / Controller Temperature / Humidity / Climate</p> <p>The probe is protected from dust by a poroplast protective coating. Application: detection of temperature in air ducts, local regulation in heating systems for constant KNX valves or electrothermal valves, local air regulation.</p> <p>Installation: The boxes are fixed to the air duct with a plastic sleeve and two screws.</p> <p>Probe length: 230 mm Operating temperature: -25 .. +80 °C Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H.</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room IP54/65</p>	30301057	248,00 €

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SK02-TFK	Article	Article Description	Article No.	List Price
SK02		Temperature Probe Integrated in Box	Product Group 1	
KNX, on-wall, indoor, IP20		Document: 2204_ex_SK02-TFK.pdf		
	SK02-TFK	<p>KNX Sensor / Controller Temperature / Humidity / Climate</p> <p>Use: detecting and controlling room temperature in homes, hotels, offices, exhibition areas and schools.</p> <p>Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C Measured humidity range: 0 .. 95% r.H.</p> <p>Plastic housing: (71 x 71 x 25) mm For in-wall mounting in dry interiors IP20</p>	30302201	196,00 €

SK03-TFK	Article	Article Description	Article No.	List Price
SK03		Temperature probe integrated in box	Product Group 1	
KNX, in-wall, indoor, IP20		Document: 2205_ex_SK03-TFK.pdf		
KNX Sensor / Controller Temperature / Humidity / Climate				
Detecting and controlling room climate in homes, hotels, offices, exhibition areas and schools. Compatible with switching systems (e.g. Gira, Merten) in standard 55 mm.				
Mounted with two spring clips with cable ring (included) for a (60/68 mm) in-wall pattress.				
For in-wall mounting in dry interiors, IP20				
	SK03-TFK	<p>Plastic housing: white Frame: 55 mm</p> <p>Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C Measured humidity range: 0 .. 95% r.H.</p> <p>For in-wall mounting in dry interiors IP20</p>	30303201	193,00 €
	SK03-TFK	<p>Plastic housing: anthrazit Frame: 55 mm</p> <p>Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C Measured humidity range: 0 .. 95% r.H.</p> <p>For in-wall mounting in dry interiors IP20</p>	30303202	193,00 €

KNX-Sensorik Temperature / Temperature / Humidity / Climate Sensor: Sensirion SHT11/71 / PT1000

TTFK

KNX Sensors / Controller with integrated KNX Bus Coupler for measuring and regulating temperature, humidity and climate.
An additional PT1000 probe can be connected.
No auxiliary voltage necessary.

Product Data Base: **ARC_TFK**

Application Description: **100_ex_APB_SK0x-Txxx.pdf**

- ETS Application:
- Measured values of temperature and relative humidity (Sensirion-Sensor)
 - PI or two-position controller for temperature with steady or PWM output
 - Two-position controller for relative humidity
 - Various operating methods for temperature control: relative RTC, absolute RTC, standard
 - Maximum limit alarm with presetting via KNX Bus: humidity, temperature
 - Minimum / maximum temperature saved
 - Adjustable frost protection alarm
 - Dew point alarm and dew point control
 - Adjustment of all standards and limits
 - Values calculated: absolute humidity, dew point temperature, enthalpy
 - Actual value adjustment for temperature and relative humidity
 - Measured value of the second temperature (additional probe PT1000) with two-position controller

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SK01-TTFK	Article	Article Description	Article No.	List Price
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SK01 with External Probe	Product Group 1
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KNX, on-wall, indoor/outdoor, IP54/65 Document: 2301_ex_SK01-TTFK-AFF.pdf

KNX Sensor / Controller
Temperature / Temperature / Humidity / Climate / Dewpoint control

Application: building automation, refrigeration, airconditioning and ventilation technology, greenhouses etc.

	SK01-TTFK-AFF	<p>The temperature / humidity probe is protected from dust by a poroplast protective coating.</p> <p>Probe length: 45 mm Operating temperature: -25 .. +80 °C Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H. Measured temp. range ext.: -50 .. +200 °C</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room IP54/65</p> <p>An additional PT1000 probe not included in delivery.</p>	30401053	262,00 €
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		<p>An additional PT1000 probe for surface mounting, screwing in or contacting with customized cable-length can be ordered.</p> <p>(see rubric Z, Components / Replacement Parts)</p>
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SK01-TTFK	Article	Article Description	Article No.	List Price
SK01 with Pendulum Room Probe				Product Group 1
KNX, on-wall, indoor/outdoor, IP54/65		Document: 2302_ex_SK01-TTFK-RPFF-MMF.pdf		
KNX Sensor / Controller Temperature / Temperature / Humidity / Climate / Dewpoint control Application: building automation, refrigeration, airconditioning and ventilation technology, greenhouses, in halls with high ceilings, etc. For indoor / outdoor and damp room, IP54/65				
	SK01-TTFK -RPFF	<p>The probe is protected from dust by a poroplast protective coating and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm Connecting cable: PVC 2 m</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +80 °C Measured humidity range: 0 .. 95% r.H. Measured temp. range ext.: -50 .. +200 °C</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room IP54/65</p> <p>An additional PT1000 probe not included in delivery.</p>	30401054	300,00 €
	SK01-TTFK -RPFF -MMF	<p>The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm Connecting cable: PVC 2 m</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +80 °C Measured humidity range: 0 .. 95% r.H. Measured temp. range ext.: -50 .. +200 °C</p> <p>Plastic housing: (72 x 64 x 40) mm For indoor / outdoor and damp room IP54/65</p> <p>An additional PT1000 probe not included in delivery.</p>	30401056	333,00 €
	i	<p>An additional PT1000 probe for surface mounting, screwing in or contacting with customized cable-length can be ordered.</p> <p>(see rubric Z, Components / Replacement Parts)</p>		

SK03-TTFK	Article	Article Description	Article No.	List Price
SK03	Temperature probe integrated in box			Product Group 1
KNX, in-wall, indoor, IP20	Document: 2303_ex_SK03-TTFK.pdf			
KNX Sensor / Controller Temperature / Temperature / Humidity / Climate / Dewpoint control Use: detecting and controlling room temperature in homes, hotels, offices, exhibition areas and schools. Mounted using 2 spring clips in cable ring (included) for a (60/68 mm) in-wall pattress. Compatible with switching systems (e.g. Gira, Merten) in standard 55 mm. For in-wall mounting in dry interiors, IP20				
	SK03-TTFK	Plastic housing: white Frame: 55 mm Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C Measured humidity range: 0 .. 95% r.H. Measured temp. range ext.: -50 .. +200 °C An additional PT1000 probe not included in delivery.	30403201	245,00 €
	SK03-TTFK	Plastic housing: anthrazit Frame: 55 mm Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C Measured humidity range: 0 .. 95% r.H. Measured temp. range ext.: -50 .. +200 °C An additional PT1000 probe not included in delivery.	30403202	245,00 €
	i	An additional PT1000 probe for surface mounting, screwing in or contacting with customized cable-length can be ordered. (see rubric Z, Components / Replacement Parts)		

KNX-Sensorik Temperatur Control**TC**

Sensors with integrated KNX-Bus coupler for measuring and regulating temperature.

The sensor has a variety of other functions that can be found in the corresponding product page.

No auxiliary voltage necessary.

Product Data Base: **HLK305**

ETS Application:

- Air temperature (sensor in the housing) also weighted with external temperature
- Additional floor, ceiling or component temperature (Input via object)
- CO2 or VOC content (sensor in the housing)
- Detection of minimum- and maximum-temperature
- Heat- and frost-alarm
- Limits for temperature
- Control functions for heating and cooling applications (can be combined)
- Setpoint temperatures for Comfort, Standby, Economy and Protection, selectable via KNX HVAC objects
- Controller output 0..100% or programmable PWM for thermal actuators
- Two binary inputs
- Two push buttons (on the front side)
 - Light control as switch/button with short, long and double function
 - Dimmer
 - Blind and shutter control
 - Temperature adjustment
- Different operating states can be displayed with LED
- Four logic blocks for the logical link between internal and external signals
- 10 associated logic inputs/outputs

For more information on the functionality you find in the corresponding product sheets.

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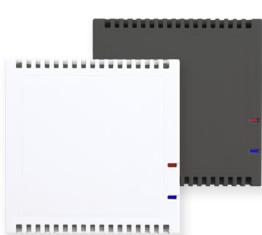
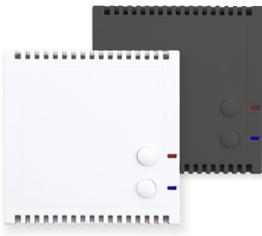
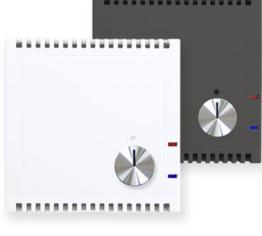
Neo	Article	Article Description	Article No.	List Price
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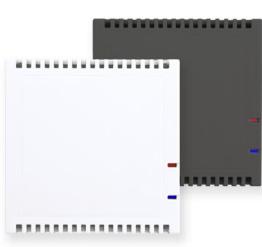
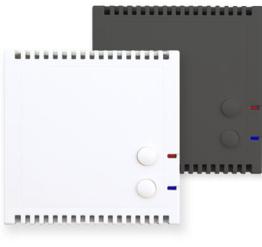
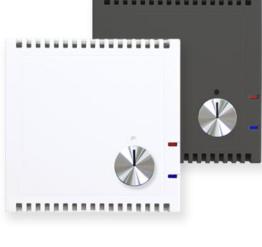
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Neo-TC-x		Document: 2480_ex_Neo-TC-x.pdf	Product Group 1	
	Neo-TC-AQS	KNX Sensor / Controller Temperature Binary Inputs + Additional Functions	30511583	
	Neo-TC-AQB	Operating temperature: -20 .. +80 °C	30511584	
	Neo-TC-ARE	Measured temperature range: -20 .. +80 °C	30511683	189,00 €
	Neo-TC-ARB	IP20 Aluminum housing for (60/68 mm) flush-mounted socket	30511684	

Neo-TC-CO2-x		Dokument: 2481_ex_Neo-TC-CO2-x.pdf	Product Group 10	
	Neo-TC-CO2-AQS	KNX Sensor / Controller Temperature CO2 Concentration Binary Inputs + Additional Functions	30512563	
	Neo-TC-CO2-AQB	Operating temperature: -20 .. +60 °C	30512564	
	Neo-TC-CO2-ARE	Measured temperature range: -20 .. +60 °C	30512663	284,00 €
	Neo-TC-CO2-ARB	Measured CO2 range: 0 - 2000 ppm IP20 Aluminum housing for (60/68 mm) flush-mounted socket	30512664	

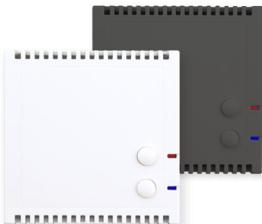
Neo-TC-VOC-x		Dokument: 2482_ex_Neo-TC-VOC-x.pdf	Product Group 10	
	Neo-TC-VOC-AQS	KNX Sensor / Controller Temperature VOC Concentration Binary Inputs + Additional Functions	30513563	
	Neo-TC-VOC-AQB	Operating temperature: 0 .. +50 °C	30513564	
	Neo-TC-VOC-ARE	Measured temperature range: 0 .. +50 °C	30513663	234,00 €
	Neo-TC-VOC-ARB	Measured VOC range: 450 - 2000 ppm CO2 equivalent IP20 Aluminum housing for (60/68 mm) flush-mounted socket	30513664	

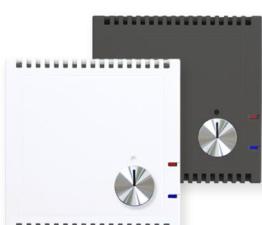
SK30	Article	Article Description	Article No.	List Price
SK30-TC		Document: 2401_ex_SK30-TC.pdf	Product Group 1	
	SK30-TC	<p>KNX Sensor / Controller Temperature Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C Measured temperature range: -20 .. +80 °C</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30511361 ultra dark grey 30511362	129,00 €
SK30-TC-PB		Dokument: 2402_ex_SK30-TC-PB.pdf	Product Group 1	
	SK30-TC-PB	<p>KNX Sensor / Controller Temperature Push Buttons Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C Measured temperature range: -20 .. +80 °C</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30511371 ultra dark grey 30511372	139,00 €
SK30-TC-R		Dokument: 2407_ex_SK30-TC-R.pdf	Product Group 1	
	SK30-TC-R	<p>KNX Sensor / Controller Temperature Rotary Controller Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C Measured temperature range: -20 .. +80 °C</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30511351 ultra dark grey 30511352	159,00 €

SK30	Article	Article Description	Article No.	List Price
SK30-TC-CO2		Document: 2403_ex_SK30-TC-CO2.pdf	Product Group 10	
	SK30-TC-CO2	<p>KNX Sensor / Controller Temperature CO2 Concentration Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C Measured temperature range: -20 .. +60 °C Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30512361 ultra dark grey 30512362	224,00 €
SK30-TC-CO2-PB		Document: 2404_ex_SK30-TC-CO2-PB.pdf	Product Group 10	
	SK30-TC-CO2 -PB	<p>KNX Sensor / Controller Temperature CO2 Concentration, Push Buttons Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C Measured temperature range: -20 .. +60 °C Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30512371 ultra dark grey 30512372	234,00 €
SK30-TC-CO2-R		Document: 2408_ex_SK30-TC-CO2-R.pdf	Product Group 10	
	SK30-TC-CO2 -R	<p>KNX Sensor / Controller Temperature CO2 Concentration, Rotary Controller Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C Measured temperature range: -20 .. +60 °C Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30512351 ultra dark grey 30512352	254,00 €

SK30	Article	Article Description	Article No.	List Price
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SK30-TC-VOC		Document: 2405_ex_SK30-TC-VOC.pdf	Product Group 10	
	SK30-TC-VOC	<p>KNX Sensor / Controller Temperature VOC Concentration Binary Inputs + Additional Functions</p> <p>Operating temperature: 0 .. +50 °C Measured temperature range: 0 .. +50 °C Measured VOC range: 450 - 2000 ppm CO2 equivalent</p> <p>IP20 Plastic housing in 55mm standard size</p>	weiß 30513361 ultra dark grey 30513362	174,00 €

SK30-TC-VOC-PB		Document: 2406_ex_SK30-TC-VOC-PB.pdf	Product Group 10	
	SK30-TC-VOC-PB	<p>KNX Sensor / Controller Temperature VOC Concentration, Push Buttons Binary Inputs + Additional Functions</p> <p>Operating temperature: 0 .. +50 °C Measured temperature range: 0 .. +50 °C Measured VOC range: 450 - 2000 ppm CO2 equivalent</p> <p>IP20 Plastic housing in 55mm standard size</p>	weiß 30513371 ultra dark grey 30513372	184,00 €

SK30-TC-VOC-R		Document: 2409_ex_SK30-TC-VOC-R.pdf	Product Group 10	
	SK30-TC-VOC-R	<p>KNX Sensor / Controller Temperature VOC Concentration, Rotary Controller Binary Inputs + Additional Functions</p> <p>Operating temperature: 0 .. +50 °C Measured temperature range: 0 .. +50 °C Measured VOC range: 450 - 2000 ppm CO2 equivalent</p> <p>IP20 Plastic housing in 55mm standard size</p>	weiß 30513351 ultra dark grey 30513352	204,00 €

SK07	Article	Article Description	Article No.	List Price
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SK07-TC-6B		Document: 2430_ex_SK07-TC-6B.pdf	Product Group 1	
	SK07-TC-6B	<p>KNX Sensor / Controller Temperature 6 button inputs Two switch inputs can be configured as outputs at 3VDC(1mA)</p> <p>Operating temperature Modul: -20 .. +80 °C Measured range PT1000: -50 .. +400 °C</p> <p>IP20 plastic housing (50 x 50 x 20) mm</p> <p>Delivery without temperature sensor</p>	30510790	109,00 €

SK10L	Article	Article Description	Article No.	List Price
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SK10L-TC-L		Document: 2450_ex_SK10L-TC-L	Product Group 1	
	SK10L-TC-L	<p>KNX Sensor / Controller Temperature with Brightness Sensor</p> <p>Operating temperature: -25 .. +80 °C Measured brightness range: 3 .. 220.000 lux Measured range PT1000: -50 .. +400 °C</p> <p>IP54/65 Plastic housing (72 x 64 x 45) mm</p> <p>Delivery without temperature sensor</p>	30514100	228,00 €

SK10	Article	Article Description	Article No.	List Price
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SK10-TC		Document: 2461_ex_SK10-TC.pdf	Product Group 1	
	SK10-TC	<p>KNX Sensor / Controller Temperature</p> <p>Operating temperature: -25 .. +80 °C Measured range PT1000: -50 .. +400 °C</p> <p>IP54/65 Plastic housing (72 x 64 x 40) mm</p> <p>Delivery without temperature sensor</p>	30510000	143,00 €

SK10-TC-OFTF		Document: 2462_ex_SK10-TC-OFTF.pdf	Product Group 1	
	SK10-TC-OFTF	<p>KNX Sensor / Controller Temperature</p> <p>Surface-Contacting probe, square, for flat surfaces. The aluminium casing of the PT1000 temperature probe is attached to the surface with glue.</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +105 °C Connecting cable: PVC 1,5 m</p> <p>IP54/65 Plastic housing (72 x 64 x 40) mm</p>	30511001	161,90 €

SK10-TC-HTF		Document: 2463_ex_SK10-TC-HTF.pdf	Product Group 1			
KNX Sensor / Controller Temperature						
With sleeve probe (PT1000) for temperature detection in liquid and gaseous media using an immersion sleeve.						
Probe: V4A stainless steel, sleeve sensor, round , rolled stamped (protected from humidity) 50 mm, Ø 6 mm.						
IP54/65 Plastic housing (72 x 64 x 40) mm						
	SK10-TC-HTF PVC 1,5 m	<p>Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C Connecting cable: PVC 1,5 m</p>	30511002	154,75 €		
	SK10-TC-HTF Silicone 1,5 m	<p>Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +180 °C Connecting cable: Silicone 1,5 m</p>	30511003	159,10 €		
	SK10-TC-HTF PTFE 1,5 m	<p>Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +250 °C Connecting cable IP68: PTFE 1,5 m</p>	30511055	171,90 €		

SK10-TC	Article	Article Description	Article No.	List Price
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SK10-TC-ALTF1	Document: 2464_ex_SK10-TC-ALTF1.pdf	Product Group 1		
KNX Sensor / Controller Temperature				
with axial probe tube for temperature detection of liquid and gaseous media on pipes and tubes.				
Installation on pipe with endless straps and metal tightener (included). Strap dimensions: Ø 13-92 mm (1/4 - 3"), 300 mm (included in delivery)				
	SK10-TC -ALTF1 PVC 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C Connecting cable: PVC 1,5 m	30511004	157,00 €
	SK10-TC -ALTF1 Silicone 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +180 °C Connecting cable: Silicone 1,5 m	30511005	158,10 €

SK10-TC-ALTF2	Document: 2465_ex_SK10-TC-ALTF2.pdf	Product Group 1		
	SK10-TC -ALTF2	KNX Sensor / Controller Temperature With contacting probe (PT1000) on the rear side of the terminal box, used for temperature detection of liquids and gaseous media in pipes and tubes. Installation on tubes with endless strap and metal tightener (included). Strap dimensions: Ø 13-92 mm (1/4 - 3"), 300 mm Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +110 °C IP54/65 Plastic housing (72 x 64 x 40) mm	30511006	160,10 €

SK10	Article	Article Description	Article No.	List Price
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SK10-TC-ATF2		Document: 2466_ex_SK10-TC-ATF2.pdf	Product Group 1	
	SK10-TC-ATF2	<p>KNX Sensor / Controller Temperature</p> <p>The PT1000 probe is enclosed in a V4A stainless steel sheath tube (60 mm, Ø 6 mm).</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +90 °C</p> <p>IP54/65 Plastic housing (72 x 64 x 40) mm</p>	30511007	170,80 €

SK10-TC-ESTF	Document: 2467_ex_SK10-TC-ESTF.pdf	Product Group 1					
KNX Sensor / Controller Temperature							
The PT1000 probe is in a brass sheath tube (Ø 8 mm, max. pressure 40 bar) made of V4A steel with cable connection. Used for temperature detection in liquid or gaseous media, in heating plants, circulation and climate technology.							
IP54/65 Plastic housing (72 x 64 x 40) mm							
	<p>SK10-TC-ESTF 50 mm PVC 1,5 m</p> <p>SK10-TC-ESTF 100 mm PVC 1,5 m</p> <p>SK10-TC-ESTF 50 mm Silicone 1,5 m</p> <p>SK10-TC-ESTF 100 mm Silicone 1,5 m</p>	<p>Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C Probe: G 1/2", 50 mm</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C Probe: G 1/2", 100 mm</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +180 °C Probe: G 1/2", 50 mm</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +180 °C Probe: G 1/2", 100 mm</p>	<p>30511008</p> <p>30511009</p> <p>30511010</p> <p>30511011</p>	<p>171,50 €</p> <p>172,50 €</p> <p>172,50 €</p> <p>173,60 €</p>			

SK10	Article	Article Description	Article No.	List Price
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SK10-TC-ETF1	Document: 2468_ex_SK10-TC-ETF1.pdf	Product Group 1					
KNX Sensor / Controller Temperature							
The PT1000 probe is in a brass sheath tube (G 1/2", Ø 6 mm), which is inside a brass immersion sleeve (Ø 8 mm, max. pressure 10 bar).							
Used for temperature detection in liquid or gaseous media, in heating plants, circulation and climate technology.							
	SK10-TC-ETF1 50mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511013	176,75 €			
	SK10-TC-ETF1 100mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511014	177,95 €			
	SK10-TC-ETF1 150mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511015	178,60 €			
	SK10-TC-ETF1 200mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511016	180,20 €			
	SK10-TC-ETF1 250mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511017	181,15 €			
	SK10-TC-ETF1 300mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511018	183,95 €			
	SK10-TC-ETF1 400mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511019	185,15 €			

SK10-TC-ETF2	Document: 2469_ex_SK10-TC-ETF2.pdf	Product Group 1					
KNX Sensor / Controller Temperature							
The PT1000 probe is in a V4A steel sheath tube (G 1/2", Ø 6 mm), which is inside a V4A immersion sleeve (Ø 8 mm, max. pressure 40 bar).							
Used for temperature detection in liquid or gaseous media, in heating plants, circulation and climate technology.							
IP54/65 Plastic housing (72 x 64 x 40) mm							
	SK10-TC-ETF2 50mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511020	181,90 €			
	SK10-TC-ETF2 100mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511021	184,73 €			
	SK10-TC-ETF2 150mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511022	187,10 €			
	SK10-TC-ETF2 200mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511023	189,20 €			
	SK10-TC-ETF2 250mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511024	190,50 €			
	SK10-TC-ETF2 300mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511025	196,10 €			
	SK10-TC-ETF2 400mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511026	197,90 €			

SK10	Article	Article Description	Article No.	List Price
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SK10-TC-ETF3	Document: 2470_ex_SK10-TC-ETF3.pdf	Product Group 1
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KNX Sensor / Controller Temperature

The PT1000 probe is in a V4A steel sheath tube (G 1/2", Ø 6mm), which is inside a V4A stainless steel immersion sleeve (Ø 8mm, max. pressure 40 bar).

Installed using pipes and cases with the immersion sleeve (included).

IP54/65 Plastic housing
(72 x 64 x 40) mm

	SK10-TC-ETF3 50mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511027	199,00 €
	SK10-TC-ETF3 100mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511028	199,60 €
	SK10-TC-ETF3 150mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511029	200,85 €
	SK10-TC-ETF3 200mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511030	202,40 €
	SK10-TC-ETF3 250mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511031	203,50 €
	SK10-TC-ETF3 300mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511032	207,10 €
	SK10-TC-ETF3 400mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30511033	209,40 €

SK10-TC-ETF7	Document: 2471_ex_SK10-TC-ETF7.pdf	Product Group 1
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KNX Sensor / Controller Temperature

Temperature probe (PT1000) with neck tube and plain tapered sheath tube, very quick response time, especially suitable for very swift temperature and control processes such as hot water systems.

Pipe length: 25mm

Pipe measurements: Ø 6 mm, plain tapered Ø 4mm

Protective material: stainless steel

IP54/65 Plastic housing
(72 x 64 x 40) mm

	SK10-TC-ETF7 100mm	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +150 °C Probe: G 1/2", 100mm	30511034	265,30 €
	SK10-TC-ETF7 150mm	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +150 °C Probe: G 1/2", 150mm	30511035	267,05 €
	SK10-TC-ETF7 250mm	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +150 °C Probe: G 1/2", 250mm	30511036	269,65 €

SK10	Article	Article Description	Article No.	List Price		
SK10-TC-KTF1		Document: 2472_ex_SK10-TC-KTF1.pdf	Product Group 1			
KNX Sensor / Controller Temperature						
The PT1000 probe is in a V4A stainless steel sheath tube (Ø 6 mm). Used in air ducts and heating and climate technology. The boxes are mounted onto air ducts with a plastic sleeve and 2 screws.						
Operating temperature:-25 .. +80 °C						
IP54/65 Plastic housing (72 x 64 x 40) mm						
	SK10-TC-KTF1 50mm V4A	Measured temperature range: Probe: -30 .. +150 °C 50mm	30511037	174,10 €		
	SK10-TC-KTF1 100mm V4A	Measured temperature range: Probe: -30 .. +150 °C 100mm	30511038	174,50 €		
	SK10-TC-KTF1 150mm V4A	Measured temperature range: Probe: -30 .. +150 °C 150mm	30511039	175,00 €		
	SK10-TC-KTF1 200mm V4A	Measured temperature range: Probe: -30 .. +150 °C 200mm	30511040	175,62 €		
	SK10-TC-KTF1 250mm V4A	Measured temperature range: Probe: -30 .. +150 °C 250mm	30511041	178,10 €		
	SK10-TC-KTF1 300mm V4A	Measured temperature range: Probe: -30 .. +150 °C 300mm	30511042	179,80 €		
	SK10-TC-KTF1 400mm V4A	Measured temperature range: Probe: -30 .. +150 °C 400mm	30511043	182,10 €		

SK10	Article	Article Description	Article No.	List Price
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SK10-TC-RPTF1		Document: 2473_ex_SK10-TC-RPTF1.pdf	Product Group 1	
	SK10-TC-RPTF1	<p>KNX Sensor / Controller Temperature</p> <p>Temperature probe PT1000 is in sheath tube. Installation in rooms with a high ceiling with a suspended sensor.</p> <p>Probe: 100mm, M12 / 1,5mm Operating temperature: -25 .. +80 °C Measured temperature range: -5 .. +60 °C Connecting cable: PVC 2m</p> <p>IP54/65 Plastic housing (72 x 64 x 40) mm</p>	30511050	191,50 €

SK10-TC-RPTF2		Document: 2474_ex_SK10-TC-RPTF2.pdf	Product Group 1	
	SK10-TC-RPTF2	<p>KNX Sensor / Controller Temperature</p> <p>Temperature probe PT1000 is in a black plastic sphere (Ø 50mm) Dark radiation probe detects radiation and radiation heat. Installation in rooms with high ceilings with suspended sensor.</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -5 .. +60 °C Connecting cable: PVC 2m</p> <p>IP54/65 Plastic housing (72 x 64 x 40) mm</p>	30511051	189,50 €

KNX-Sensorik Temperatur Humidity Control**THC**

KNX sensors / controller with integrated KNX Bus Interface for detection and control of indoor air parameters.

The sensor has a variety of other functions that can be found in the corresponding product page.

No auxiliary voltage necessary.

Product Data Base: **HLK305**

- ETS Application:
- Air temperature (sensor in the housing) also weighted with external temperature
 - Additional floor, ceiling or component temperature (Input via object)
 - CO2 or VOC content (sensor in the housing)
 - Detection of minimum- and maximum-temperature
 - Heat- and frost-alarm
 - Limits for temperature
 - Control functions for heating and cooling applications (can be combined)
 - Setpoint temperatures for Comfort, Standby, Economy and Protection, selectable via KNX HVAC objects
 - Controller output 0..100% or programmable PWM for thermal actuators
 - Two binary inputs
 - Two push buttons (on the front side)
 - Light control as switch/button with short, long and double function
 - Dimmer
 - Blind and shutter control
 - Temperature adjustment
 - Different operating states can be displayed with LED
 - Four logic blocks for the logical link between internal and external signals
 - 10 associated logic inputs/outputs

For more information on the functionality you find in the corresponding product page.

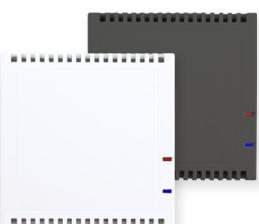
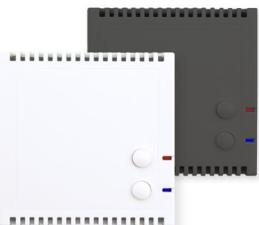
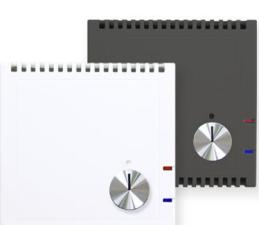
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Neo	Article	Article Description	Article No.	List Price
AQS		Aluminum, square, sanded		
AQB		Aluminum, square, sanded, black		
ARE		Aluminum, round, anodized		
ARB		Aluminum, round, anodized, black		

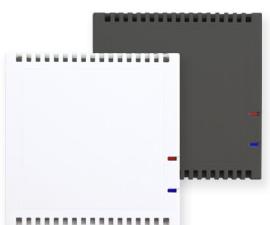
Neo-THC-x		Document: 2580_ex_Neo-THC-x.pdf	Product Group 1	
	Neo-THC-AQS	KNX Sensor / Controller Temperature Humidity Binary Inputs + Additional Functions	30531583	
	Neo-THC-AQB	Operating temperature: -20 .. +80 °C	30531584	
	Neo-THC-ARE	Measured temperature range: -20 .. +80 °C	30531683	209,00 €
	Neo-THC-ARB	Measured humidity range: 0 .. 95% r.H	30531684	
		IP20 Aluminum housing for (60/68 mm) flush-mounted socket		

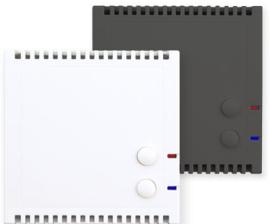
Neo-THC-CO2-x		Dokument: 2581_ex_Neo-THC-CO2-x.pdf	Product Group 10	
	Neo-THC-CO2-AQS	KNX Sensor / Controller Temperature Humidity CO2 Concentration Binary Inputs + Additional Functions	30532563	
	Neo-THC-CO2-AQB	Operating temperature: -20 .. +60 °C	30532564	
	Neo-THC-CO2-ARE	Measured temperature range: -20 .. +60 °C	30532663	304,00 €
	Neo-THC-CO2-ARB	Measured humidity range: 0 .. 95% r.H	30532664	
		Measured CO2 range: 0 - 2000 ppm		
		IP20 Aluminum housing for (60/68 mm) flush-mounted socket		

Neo-THC-VOC-x		Dokument: 2582_ex_Neo-THC-VOC-x.pdf	Product Group 10	
	Neo-THC-VOC-AQS	KNX Sensor / Controller Temperature Humidity VOC Concentration Binary Inputs + Additional Functions	30533563	
	Neo-THC-VOC-AQB	Operating temperature: 0 .. +50 °C	30533564	
	Neo-THC-VOC-ARE	Measured temperature range: 0 .. +50 °C	30533663	254,00 €
	Neo-THC-VOC-ARB	Measured humidity range: 5 .. 95% r.H	30533664	
		Measured VOC range: 450 - 2000 ppm CO2 equivalent		
		IP20 Aluminum housing for (60/68 mm) flush-mounted socket		

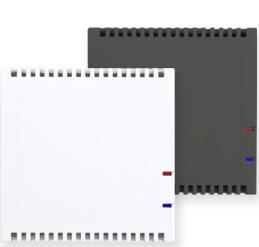
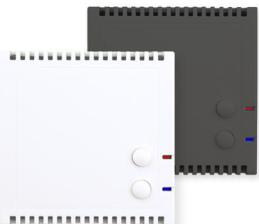
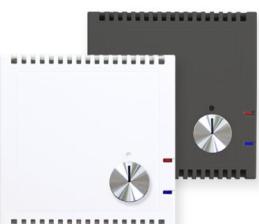
SK30	Article	Article Description	Article No.	List Price
SK30-THC		Document: 2501_ex_SK30-THC.pdf	Product Group 1	
	SK30-THC	<p>KNX Sensor / Controller Temperature Humidity Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C Measured temperature range: -20 .. +80 °C Measured humidity range: 0 .. 95% r.H</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30531361	149,00 €
			ultra dark grey 30531362	
SK30-THC-PB		Document: 2502_ex_SK30-THC-PB.pdf	Product Group 1	
	SK30-THC-PB	<p>KNX Sensor / Controller Temperature Humidity Push Buttons Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C Measured temperature range: -20 .. +80 °C Measured humidity range: 0 .. 95% r.H</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30531371	159,00 €
			ultra dark grey 30531372	
SK30-THC-R		Document: 2507_ex_SK30-THC-R.pdf	Product Group 1	
	SK30-THC-R	<p>KNX Sensor / Controller Temperature Humidity Rotary Controller Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C Measured temperature range: -20 .. +80 °C Measured humidity range: 0 .. 95% r.H</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30531351	179,00 €
			ultra dark grey 30531352	

SK30	Article	Article Description	Article No.	List Price
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SK30-THC-CO2		Document: 2503_ex_SK30-THC-CO2.pdf	Product Group 10	
	SK30-THC-CO2	<p>KNX Sensor / Controller Temperature Humidity CO2 Concentration Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C Measured temperature range: -20 .. +60 °C Measured humidity range: 0 .. 95% r.H Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30532361 ultra dark grey 30532362	244,00 €

SK30-THC-CO2-PB		Document: 2504_ex_SK30-THC-CO2-PB.pdf	Product Group 10	
	SK30-THC-CO2-PB	<p>KNX Sensor / Controller Temperature Humidity CO2 Concentration, Push Button Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C Measured temperature range: -20 .. +60 °C Measured humidity range: 0 .. 95% r.H Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30532371 ultra dark grey 30532372	254,00 €

SK30-THC-CO2-R		Document: 2508_ex_SK30-THC-CO2-R.pdf	Product Group 10	
	SK30-THC-CO2-R	<p>KNX Sensor / Controller Temperature Humidity CO2 Concentration, Rotary Controller Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C Measured temperature range: -20 .. +60 °C Measured humidity range: 0 .. 95% r.H Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30532351 ultra dark grey 30532352	274,00 €

SK30	Article	Article Description	Article No.	List Price
SK30-THC-VOC		Document: 2505_ex_SK30-THC-VOC.pdf	Product Group 10	
	SK30-THC -VOC	<p>KNX Sensor / Controller Temperature Humidity VOC Concentration Binary Inputs + Additional Functions</p> <p>Operating temperature: 0 .. +50 °C Measured temperature range: 0 .. +50 °C Measured humidity range: 5 .. 95% r.H Measured VOC range: 450 - 2000 ppm CO2 equivalent</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30533361 ultra dark grey 30533362	194,00 €
SK30-THC-VOC-PB		Document: 2506_ex_SK30-THC-VOC-PB.pdf	Product Group 10	
	SK30-THC -VOC-PB	<p>KNX Sensor / Controller Temperature Humidity VOC Concentration, Push Button Binary Inputs + Additional Functions</p> <p>Operating temperature: 0 .. +50 °C Measured temperature range: 0 .. +50 °C Measured humidity range: 5 .. 95% r.H Measured VOC range: 450 - 2000 ppm CO2 equivalent</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30533371 ultra dark grey 30533372	204,00 €
SK30-THC-VOC-R		Document: 2509_ex_SK30-THC-VOC-R.pdf	Product Group 10	
	SK30-THC -VOC-R	<p>KNX Sensor / Controller Temperature Humidity VOC Concentration, Rotary Controller Binary Inputs + Additional Functions</p> <p>Operating temperature: 0 .. +50 °C Measured temperature range: 0 .. +50 °C Measured humidity range: 5 .. 95% r.H Measured VOC range: 450 - 2000 ppm CO2 equivalent</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30533351 ultra dark grey 30533352	224,00 €

SK07	Article	Article Description	Article No.	List Price
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SK07-THC-4B		Document: 2530_ex_SK07-THC-4B.pdf	Product Group 1	
	SK07-THC-4B	<p>KNX Sensor / Controller Temperature Humidity 6 button inputs Two switch inputs can be configured as outputs at 3VDC(1mA)</p> <p>Operating temperature Modul: -20 .. +80 °C Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H</p> <p>IP20 plastic housing (50 x 50 x 20) mm</p> <p>Delivery without temperature/humidity sensor</p>	30530780	119,00 €

SK10L	Article	Article Description	Article No.	List Price
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SK10L-THC-L-AFF		Dokument: 2550_ex_SK10L-THC-L-AFF.pdf	Product Group 1	
	SK10L-THC-L-AFF	<p>KNX Sensor / Controller Temperature / Humidity / Climate with Brightness Sensor</p> <p>The probe is protected from dust by a poroplast protective coating.</p> <p>Operating temperature: -25 .. +80 °C Probe length: 45 mm Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H Measured brightness range: 3 .. 220.000 lux</p> <p>IP54/65 Plastic housing (72 x 64 x 45) mm</p>	30534153	307,00 €

SK10	Article	Article Description	Article No.	List Price
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SK10-THC-AFF		Document: 2561_ex_SK10-THC-AFF.pdf	Product Group 1	
	SK10-THC-AFF	<p>KNX Sensor / Controller Temperature / Humidity / Climate</p> <p>The probe is protected from dust by a poroplast protective coating.</p> <p>Probe length: 45 mm Operating temperature: -25 .. +80 °C Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H</p> <p>IP54/65 Plastic housing (72 x 64 x 40) mm</p>	30531053	222,00 €

SK10-THC-KFF		Document: 2562_ex_SK10-THC-KFF.pdf	Product Group 1	
	SK10-THC-KFF	<p>KNX Sensor / Controller Temperature / Humidity / Climate</p> <p>The probe is protected from dust by a poroplast protective coating.</p> <p>Installation: The boxes are fixed to the air duct with a plastic sleeve and two screws.</p> <p>Probe length: 230 mm Operating temperature: -25 .. +80 °C Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H</p> <p>IP54/65 Plastic housing (72 x 64 x 40) mm</p>	30531057	248,00 €

SK10	Article	Article Description	Article No.	List Price		
SK10-THC-RPFF		Document: 2563_ex_SK10-THC-RPFF-x.pdf	Product Group 1			
KNX Sensor / Controller Temperature / Humidity / Climate						
Application: building automation, refrigeration, airconditioning and clean room technology, greenhouses, halls with high ceilings. Installation in rooms with high ceilings with the sensor suspended from the ceiling.						
	SK10-THC -RPFF	<p>The probe is protected from dust by a poroplast protective coating and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm Connecting cable: PVC 2m</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H</p> <p>IP54/65 Plastic housing (72 x 64 x 40) mm</p>	30531054	264,00 €		
	SK10-THC -RPFF -MMF	<p>The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm Connecting cable: PVC 2m</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H</p> <p>IP54/65 Plastic housing (72 x 64 x 40) mm</p>	30531056	297,00 €		

KNX-Sensorik Temperatur Temperatur Humidity Control**TTHC**

KNX sensors / controller with integrated KNX Bus Interface for detection and control of indoor air parameters.

The sensor has a variety of other functions that can be found in the corresponding product page.

No auxiliary voltage necessary.

Product Data Base: **HLK305**

ETS Application:

- Air temperature (sensor in the housing) also weighted with external temperature
- Additional floor, ceiling or component temperature (Input for external PT1000)
- CO2 or VOC content (sensor in the housing)
- Detection of minimum- and maximum-temperature
- Heat- and frost-alarm
- Limits for temperature
- Control functions for heating and cooling applications (can be combined)
- Setpoint temperatures for Comfort, Standby, Economy and Protection, selectable via KNX HVAC objects
- Controller output 0..100% or programmable PWM for thermal actuators
- Two binary inputs
- Two push buttons (on the front side)
 - Light control as switch/button with short, long and double function
 - Dimmer
 - Blind and shutter control
 - Temperature adjustment
- Different operating states can be displayed with LED
- Four logic blocks for the logical link between internal and external signals
- 10 associated logic inputs/outputs

For more information on the functionality you find in the corresponding product page.

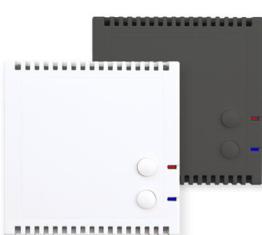
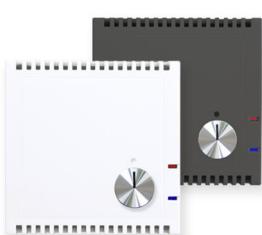
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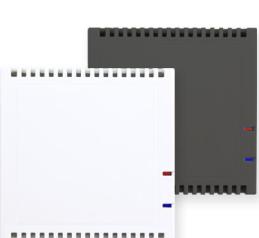
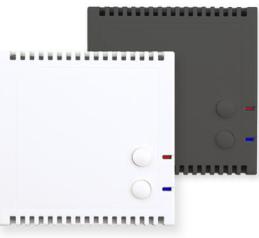
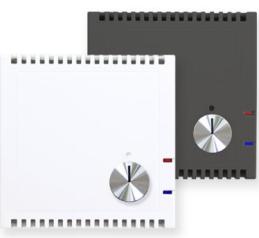
Neo	Article	Article Description	Article No.	List Price
AQS		Aluminum, square, sanded		
AQB		Aluminum, square, sanded, black		
ARE		Aluminum, round, anodized		
ARB		Aluminum, round, anodized, black		

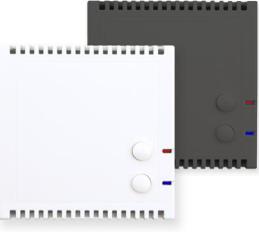
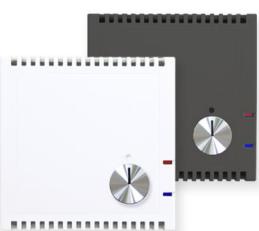
Neo-TTHC-x	Document: 2680_ex_Neo-TTHC-x.pdf	Product Group 1	
	<p>Neo-TTHC-AQS</p> <p>KNX Sensor / Controller Temperature Humidity ext. Temperature (PT1000) Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C Measured temperature range: -20 .. +80 °C Measured humidity range: 0 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP20 Aluminum housing for (60/68 mm) flush-mounted socket</p>	30541583	
	Neo-TTHC-AQB	30541584	229,00 €
	Neo-TTHC-ARE	30541683	
	Neo-TTHC-ARB	30541684	

Neo-TTHC-CO2-x	Dokument: 2681_ex_Neo-TTHC-CO2-x.pdf	Product Group 10	
	<p>Neo-TTHC-CO2-AQS</p> <p>KNX Sensor / Controller Temperature Humidity CO2 Concentration ext. Temperature (PT1000), Push Buttons Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C Measured temperature range: -20 .. +60 °C Measured humidity range: 0 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Aluminum housing for (60/68 mm) flush-mounted socket</p>	30542563	
	Neo-TTHC-CO2-AQB	30542564	324,00 €
	Neo-TTHC-CO2-ARE	30542663	
	Neo-TTHC-CO2-ARB	30542664	

Neo-TTHC-VOC-x	Dokument: 2682_ex_Neo-TTHC-VOC-x.pdf	Product Group 10	
	<p>Neo-TTHC-VOC-AQS</p> <p>KNX Sensor / Controller Temperature Humidity VOC Concentration ext. Temperature (PT1000) Binary Inputs + Additional Functions</p> <p>Operating temperature: 0 .. +50 °C Measured temperature range: 0 .. +50 °C Measured humidity range: 0 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C Measured VOC range: 450 - 2000 ppm CO2 equivalent</p> <p>IP20 Aluminum housing for (60/68 mm) flush-mounted socket</p>	30543563	
	Neo-TTHC-VOC-AQB	30543564	274,00 €
	Neo-TTHC-VOC-ARE	30543663	
	Neo-TTHC-VOC-ARB	30543664	

SK30	Article	Article Description	Article No.	List Price
SK30-TTHC		Document: 2601_ex_SK30-TTHC.pdf	Product Group 1	
	SK30-TTHC	<p>KNX Sensor / Controller Temperature Humidity ext. Temperature (PT1000) Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C Measured temperature range: -20 .. +80 °C Measured humidity range: 0 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30541361	169,00 €
	SK30-TTHC-PB	<p>KNX Sensor / Controller Temperature Humidity ext. Temperature (PT1000), Push Buttons Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C Measured temperature range: -20 .. +80 °C Measured humidity range: 0 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30541371	179,00 €
	SK30-TTHC-R	<p>KNX Sensor / Controller Temperature Humidity ext. Temperature (PT1000), Rotary Controller Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C Measured temperature range: -20 .. +80 °C Measured humidity range: 0 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30541351	199,00 €

SK30	Article	Article Description	Article No.	List Price
SK30-TTHC-CO2		Document: 2603_ex_SK30-TTHC-CO2.pdf	Product Group 10	
	SK30-TTHC-CO2	<p>KNX Sensor / Controller Temperature Humidity CO2 Concentration ext. Temperature (PT1000) Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C Measured temperature range: -20 .. +60 °C Measured humidity range: 0 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30542361	264,00 €
	SK30-TTHC-CO2-PB	<p>KNX Sensor / Controller Temperature Humidity CO2 Concentration ext. Temperature (PT1000), Push Buttons Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C Measured temperature range: -20 .. +60 °C Measured humidity range: 0 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30542371	274,00 €
	SK30-TTHC-CO2-R	<p>KNX Sensor / Controller Temperature Humidity CO2 Concentration ext. Temperature (PT1000), Rotary Controller Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C Measured temperature range: -20 .. +60 °C Measured humidity range: 0 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30542351	294,00 €

SK30	Article	Article Description	Article No.	List Price
SK30-TTHC-VOC		Document: 2605_ex_SK30-TTHC-VOC.pdf	Product Group 10	
	SK30-TTHC-VOC	<p>KNX Sensor / Controller Temperature Humidity VOC Concentration ext. Temperature (PT1000) Binary Inputs + Additional Functions</p> <p>Operating temperature: 0 .. +50 °C Measured temperature range: 0 .. +50 °C Measured humidity range: 5 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C Measured VOC range: 450 - 2000 ppm CO2 equivalent</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30543361 ultra dark grey 30543362	214,00 €
SK30-TTHC-VOC-PB		Document: 2606_ex_SK30-TTHC-VOC-PB.pdf	Product Group 10	
	SK30-TTHC-VOC-PB	<p>KNX Sensor / Controller Temperature Humidity VOC Concentration ext. Temperature (PT1000), Push Buttons Binary Inputs + Additional Functions</p> <p>Operating temperature: 0 .. +50 °C Measured temperature range: 0 .. +50 °C Measured humidity range: 5 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C Measured VOC range: 450 - 2000 ppm CO2 equivalent</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30543371 ultra dark grey 30543372	224,00 €
SK30-TTHC-VOC-R		Document: 2609_ex_SK30-TTHC-VOC-R.pdf	Product Group 10	
	SK30-TTHC-VOC-R	<p>KNX Sensor / Controller Temperature Humidity VOC Concentration ext. Temperature (PT1000), Rotary Controller Binary Inputs + Additional Functions</p> <p>Operating temperature: 0 .. +50 °C Measured temperature range: 0 .. +50 °C Measured humidity range: 5 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C Measured VOC range: 450 - 2000 ppm CO2 equivalent</p> <p>IP20 Plastic housing in 55mm standard size</p>	white 30543351 ultra dark grey 30543352	244,00 €

SK07	Article	Article Description	Article No.	List Price
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SK07-TTHC-4B		Document: 2630_ex_SK07-TTHC-4B.pdf	Product Group 1	
	SK07-TTHC-4B	<p>KNX Sensor / Controller Temperature Humidity Connector fpr PT1000 Connector fpr Temp. / Humidity Sensor (SHT71)</p> <p>6 button inputs Two switch inputs can be configured as outputs at 3VDC(1mA)</p> <p>Operating temperature Modul: -20 .. +80 °C Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H Measured range PT1000: -50 .. +400 °C</p> <p>IP20 plastic housing (50 x 50 x 20) mm</p> <p>Delivery without sensors</p>	30540780	129,00 €

SK10L	Article	Article Description	Article No.	List Price
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SK10L-TTHC-L-AFF		Dokument: 2650_SK10L-TTHC-L-AFF.pdf	Product Group 1	
	SK10L-TTHC-L-AFF	<p>KNX Sensor / Controller Temperature / Humidity / Climate with Brightness Sensor ext. Temperature (PT1000)</p> <p>The probe is protected from dust by a poroplast protective coating.</p> <p>Operating temperature: -25 .. +80 °C Probe length: 45 mm Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H Measured brightness range: 3 .. 220.000 lux Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP54/65 Plastic housing (72 x 64 x 45) mm</p> <p>Delivery without PT1000</p>	30544153	347,00 €

SK10	Article	Article Description	Article No.	List Price		
SK10-TTHC-AFF		Document: 2661_ex_SK10-TTHC-AFF.pdf	Product Group 1			
KNX Sensor / Controller Temperature / Humidity + ext. Temperature (PT1000)						
Application: building automation, refrigeration, airconditioning and ventilation technology, greenhouses etc.						
	SK10-TTHC-AFF	<p>The temperature / humidity probe is protected from dust by a poroplast protective coating.</p> <p>Probe length: 45 mm Operating temperature: -25 .. +80 °C Measured temperature range -25 .. +80 °C Measured humidity range: 0 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP54/65 Plastic housing (72 x 64 x 40) mm</p> <p>An additional PT1000 probe not included in delivery.</p>	30541053	262,00 €		
		<p>An additional PT1000 probe for surface mounting, screwing in or contacting with customized cable-length can be ordered.</p> <p>(see rubric Z, Components / Replacement Parts)</p>				

SK10	Article	Article Description	Article No.	List Price		
SK10-TTHC-RPFF		Document: 2663_ex_SK10-TTHC-RPFF-x.pdf	Product Group 1			
KNX Sensor / Controller Temperature / Humidity + ext. Temperature (PT1000)						
Application: building automation, refrigeration, airconditioning and ventilation technology, greenhouses, in halls with high ceilings, etc.						
	SK10-TTHC-RPFF	<p>The probe is protected from dust by a poroplast protective coating and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm Connecting cable: PVC 2m</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP54/65 Plastic housing (72 x 64 x 40) mm</p> <p>An additional PT1000 probe not included in delivery.</p>	30541054	300,00 €		
	SK10-TTHC-RPFF-MMF	<p>The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm Connecting cable: PVC 2m</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP54/65 Plastic housing (72 x 64 x 40) mm</p> <p>An additional PT1000 probe not included in delivery.</p>	30541056	333,00 €		
	i	<p>An additional PT1000 probe for surface mounting, screwing in or contacting with customized cable-length can be ordered.</p> <p>(see rubric Z, Components / Replacement Parts)</p>				

SK10	Article	Article Description	Article No.	List Price
SK10-TTHC-KFF		Document: 2662_ex_SK10-TTHC-KFF.pdf	Product Group 1	
	SK10-TTHC-KFF	<p>KNX Sensor / Controller Temperature / Humidity / Climate + ext. Temperature (PT1000)</p> <p>The probe is protected from dust by a poroplast protective coating. Application: detection of temperature in air ducts, local regulation in heating systems for constant KNX valves or electrothermal valves, local air regulation.</p> <p>Installation: The boxes are fixed to the air duct with a plastic sleeve and two screws.</p> <p>Probe length: 230 mm Operating temperature: -25 .. +80 °C Measured temperature range: -25 .. +80 °C Measured humidity range: 0 .. 95% r.H Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP54/65 Plastic housing (72 x 64 x 40) mm</p> <p>An additional PT1000 probe not included in delivery.</p>	30541057	284,00 €
	i	<p>An additional PT1000 probe for surface mounting, screwing in or contacting with customized cable-length can be ordered.</p> <p>(see rubric Z, Components / Replacement Parts)</p>		

KNX-Aktorik Ventilation

Application:

The module KNX LUNOS Control4-IW enables control of decentralized ventilation units from the company Lunos (www.lunos.de) via the KNX bus.

- Ventilation units e² und e⁹⁰ with heat recovery
- Ventilation units Silvento FK, Ra 15-60 und ACM-Modul as pure exhaust fans



Up to 4 ventilation devices are powered by a module.

Several modules can be networked together via the KNX bus to allow a coordinated operation. A direct control of the ventilation units can be done on the existing switch inputs.

Product Data Base: [Arcus_Lunos_Ex_v4.vd4](#)

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Ventilation	Article	Article Description	Article No.	List Price
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SK07-Lunos-Control4-IW		Product Group 1
KNX, in-wall, indoor, IP20		Document: 2900_ex_Lunos.pdf
	SK07-Lunos- Control4-IW	<p>The module enables the control of decentralized ventilation units with heat recovery from the company Lunos.</p> <p>Operation temperatur: -5 .. +45 °C</p> <p>For in-wall mounting in dry interiors, IP20</p>

KNX-Actuators Heating

On-wall KNX controller for heating actuators

The actuator control Arcus Ventil4 enables the control of up to 4 actuators or mixing valves in the heating system. There are 0 -12V linear actuator for valves or a 24V PWM for thermal control valves in heating circuit available.

Additional supply of 24 .. 32 VDC necessary

Product Data Base: **Arcus-Ventil4_v13.knxproj**

Heating	Article	Article Description	Article No.	List Price
SK04-Ventil4				Product Group 1
KNX, on-wall, indoor, IP54/65		Document: 2910_ex_SK08_Ventil4.pdf		
	SK08-Ventil4	Control of up to 4 actuators or mixing valves Additional voltage: 24 .. 32 VDC Plastic housing: (115 x 65 x 55) mm On-wall mounting in dry indoor applications IP54/65	65102001	178,00 €

KNX-Sensors Physical and Chemical Measurement Instrumentation

S8

The product series S8 consists of sensors and controllers for several physical and chemical measurands for indoor and outdoor applications.

Product Data Base: **Arc_S8.vd5**

Application Description:

Functions: Up to 8 measured values with each

- Two position controller with switch and pulse 1-bit output or
- PI controller with continuous 8-bit or pulse-width modulated 1-bit output
- Adjustable periodic display of control variable : no periodic display / 10-250 seconds
- Adjustable release and lock with all controllers
- Threshold alarms for upper and lower thresholds
- Auxiliary adjusting of set value or threshold via the bus
- Calibration of the sensors (offset cancellation)

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T8	Article	Article Description	Article No.	List Price		
SK08-T8		Multiple PT1000	Product Group 1			
KNX, Indoor / Outdoor, IP54/65		Document: 3100_ex_SK08-T8.pdf				
<p>KNX Controller 8 Channel Temperature for measurement and control of up to 8 temperatures. The temperatures are measured with the external PT1000 temperature probes. Different kind of probes can be mixed in one installation.</p> <p>For indoor / outdoor / damp room application, IP54/65</p> <p>Use case: Monitoring and control of temperatures in heating- / cooling- or informational applications. The temperature probes (PT1000) are not included in delivery.</p> <p>The additional PT1000 Sensors for surface mounting, screwing in or contacting with customized cable-length can be ordered. (see rubric Z, Components / Replacement Parts)</p>						
 <p>SK08-T8</p> <p>KNX Controller 8 Channel temperature for measuring and controlling up to 8 temperatures.</p> <p>Operating temperature: -20 .. +80 °C Measured temperature range: -30 .. +180 °C</p> <p>Measuring range extension possible to +400 °C (additional charge: 50,00 €)</p> <p>Plastic housing: (115 x 65 x 55) mm For indoor / outdoor and damp room IP54/65</p> <p>Without temperature probes</p>						

WAQ	Article	Article Description	Article No.	List Price
SK08-WAQ	Water quality — pH, ORP			Product Group 1
KNX, Indoor / Outdoor, IP54/65	Document: 3200_ex_SK08-WAQ.pdf			
KNX Sensor / Controller Galvanic isolated instrumentation amplifier and bus couple unit for measurement and control of the water quality indicators, pH and ORP. For monitoring and control of the water quality in aquariums, swimming pools, ponds and service water systems. For indoor / outdoor and damp room applications, IP54/65				
	SK08-WAQ	KNX Sensor / controller for water quality Plastic housing: (115 x 65 x 55) mm without Measuring Electrode Units Measuring Electrode Units (see rubric Z, Components / Replacment Parts)	30802000	298,00 €
SK08-WAQ-MES	Water quality — pH, ORP			Product Group 10
KNX, Indoor / Outdoor, IP54/65	Document: 3200_ex_SK08-WAQ.pdf			
	SK08-WAQ -MES	KNX Sensor / controller for water quality Plastic housing: (115 x 65 x 55) mm with Measuring Electrode Units included Operating temperature: 0 .. +50 °C	30802001	398,00 €

GLBS	Article	Article Description	Article No.	List Price
SK08-GLBS- MES	Global radiation			Product Group 10
KNX, Indoor / Outdoor, IP54/65	Document: 3400_ex_SK08-GLBS.pdf			
	SK08-GLBS-MES	<p>KNX - Global radiation sensor silicon pyranometer pyranometer and Busmodul included</p> <p>Range: 0 .. 1800 W/m² Accuracy: 5% Spectral range: 400 .. 1100 nm Temperature range: -40 .. +65 °C</p> <p>Drift: typical 2% p.a. With bubble level for exact leveling Plastic housing: (115 x 65 x 55) mm Connection cable length: 0.5m</p>	30804001	458,00 €

BFT	Article	Article Description	Article No.	List Price
SK08-BFT-WMT	Soil moisture / temperature			Product Group 10
KNX, Indoor / Outdoor, IP54/65	Document: 3500_ex_SK08-BFT.pdf			
	SK08-BFT-WMT incl. Watermark® soil moisture probe	<p>KNX sensor / controller for monitoring and control of soil moisture and soil temperature. (PT1000) with Watermark®-WM (maintenance free) soil moisture probe. The integrated controller allows automatic irrigation dependent on the real demands of water.</p> <p>Plastic housing: (115 x 65 x 55) mm Connection cable Watermark®-WM: 5m Other lengths available (see rubric Z, Components / Replacment Parts)</p>	30805001	298,00 €

BFTLFT	Article	Article Description	Article No.	List Price
SK08-BFTLFT-AFF-WMT	Soil moisture / temperature + air temp / hum.			Product Group 10
KNX, Indoor / Outdoor, IP54/65	Document: 3600_ex_SK08-BFTLFT.pdf			
	SK08-BFTLFT-AFF-WMT incl. Watermark® soil moisture probe	<p>KNX-Sensor / controller for monitoring and control of soil moisture and soil temperature. (PT1000) with Watermark®-WM (maintenance free) soil moisture probe. addtionally also air temperature and humidity. (Sensirion SHT11/71). The integrated controller allows automatic irrigation dependent on the real demands of water.</p> <p>Plastic housing: (115 x 65 x 55) mm Connection cable Watermark®-WM: 5m Other lengths available (see rubric Z, Components / Replacment Parts)</p>	30805021	335,00 €

F	Article	Article Description	Article No.	List Price
X-S8-F		Ultrasonic fill level measurement system		Product Group 10
KNX, Indoor / Outdoor, IP20/54/65		Document: 3700_ex_X-S8-F.pdf		
		<p>The ultrasonic level sensor system LevelJET from ProJET evaluates the levels in reservoirs of many construction types.</p> <p>Minimal and maximal levels can be set on site. The bus coupling unit enables to use the values in the KNX-Bus.</p> <p>Additional supply 9 .. 12 VDC / 35 mA Wall power supply included in delivery. Data cable: 1,5m</p> <p>There are two different measurement ranges available with two different housings.</p>		
	SK01-S8-F-ST	<p>Plastic housing: (72 x 64 x 40) mm IP54/65</p> <p>Measuring range: 0,15 .. 2,5 m</p> <p>Connection cable length Sensor head standard: 4m orderable until: 25m</p>	30807001	349,00 €
	REG-S8-F-ST	<p>DIN Rail mounted housing 2 units width (35 mm) IP20</p> <p>Measuring range: 0,15 .. 2,5 m</p> <p>Connection cable length Sensor head standard: 4m orderable until: 25m</p>	30807002	359,00 €
	SK01-S8-F-HR-6	<p>Plastic housing: (72 x 64 x 40) mm IP54/65</p> <p>Measuring range: 0,75 .. 6 m</p> <p>Connection cable length Sensor head standard: 4m orderable until: 100m</p>	30807011	409,00 €
	REG-S8-F-HR-6	<p>DIN Rail mounted housing 2 units width (35 mm) IP20</p> <p>Measuring range: 0,75 .. 6 m</p> <p>Connection cable length Sensor head standard: 4m orderable until: 100m</p>	30807012	419,00 €

AN2	Article	Article Description	Article No.	List Price
SK08-AN2		Analog modul 2-fold	Product Group 1	
KNX, Indoor / Outdoor, IP54/65		Document: 3810_ex_SK08-AN2.pdf		
	SK08-AN2	<p>KNX Dataconverter / controller for monitoring and control of two analog voltages. Input range 0 .. (5-12)VDC. Factory setting: 0 .. 10VDC Plastic housing: (115 x 65 x 55) mm IP54/65</p>	30806202	169,00 €

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KNX Funktion Module / Gateways

The KNX-FM Modul is a logic module which is used in KNX Systems. It is characterized by its free programming capabilities. Programming is done in the forth language and is executed by an internal interpreter. The 50 MHz Arm processor allows fast 32-bit integer operations and 64-bit floating point calculations. The self-compiling command interpreter produces fast and compact code. Sample applications are the preprogrammed KNX-GW-DMX and the KNX-GW-RS232-RS485 Gateways. Additional use cases are Admission control systems, Data logging, trans-media gateways etc. Additionally, the module KNX-FM contains programmable control and display elements.

Programming and parametrization is done via USB by the ArcSuite program which can be downloaded. The preprogrammed solutions KNX-GW-DMX and KNX-GW-RS232-RS485 have dedicated configuration software available.

KNX Funktion Modul / Gateways



Technical Data

Outline:	(107 x 75 x 31) mm
Mounting options:	REG (6TE)
Protection class:	IP20
Operating temperature:	-5 .. +45 °C
KNX-load:	20 .. 32 VDC / 150 mW
Power supply:	9 .. 30 VDC / 100 mA
Programming:	Software ArcSuite via USB
Data rates:	RS232 250.0 kBaud max.
	RS485 115.2 kBaud max.

KNX Funktion Module	Article	Article Description	Article No.	List Price
KNX-FM KNX-GW-RS232-RS485		Product Group 1		
KNX-FM		Document: 4100_ex_KNX-FM.pdf		
	KNX-FM	<p>The KNX-FM is a free programmable logic module with an KNX-Interface. It is housed in a 107 mm wide DIN Rail mounted housing.</p> <p>Programming is done by the Program ArcSuite.</p>	40020186	325,00 €
KNX-GW-RS232-RS485		Document: 4300_ex_KNX-GW-RS232-RS485.pdf		
	KNX-GW-RS232-RS485	<p>The KNX-GW-RS232-RS485 is a gateway between the KNX-Bus and the serial lines RS232 or RS485. It can be used to easily connect devices with serial data of both directions like multimedia equipment or alarm systems to the KNX-Bus.</p> <p>Parametrization is done by the dedicated Program RS232-Configurator.</p> <p>RS232 Configurator</p>	40220186	325,00 €

KNX Funktion Module	Article	Article Description	Article No.	List Price
KNX-GW-DMX		Product Group 1		
KNX		Document: 4200_ex_KNX-GW-DMX.pdf		
	KNX-GW-DMX	The KNX-GW-DMX is a unidirectional gateway between the KNX-Bus and the DMX512-Bus used by a wide range of devices for lighting applications. Parametrization is done by the dedicated program DMX Configurator .	40120186	325,00 €
	KNX-GW-DMX-2TE		40120182	325,00 €

KNX-GW-MBUS**KNX Gateway MBus****Product Group 1**

Use case: KNX bus coupling for counter with M-Bus interface

The M-bus gateway is a Master for M-Bus Systems according to the DIN EN 13757-2/3. The Master can supply and service up to 3 M-Bus devices. There are 32 M-Bus data points available, which can be assigned freely to the different devices.

Product Data Base: **MBUS_v4.vd5**

KNX Readable Data: For each MBus device

- Device Date
- Secondary Address

Per MBus data point (32 data points) as:

- 6-Byte Metering
- 4-Byte Float
- 4-Byte unsigned Integer
- Date
- Time



KNX-GW-MBUS-SK01

MBus Gateway for up to 3 MBus devices

Plastic housing: (72 x 64 x 40) mm

60400001

165,00 €

IP54/65



KNX-GW-MBUS-REG

MBus Gateway for up to 3 MBus devices

DIN Rail mounted housing
2 units width (35 mm)

60400002

177,00 €

IP20

KNX

Document: 4420_ex_MBUS-SK08.pdf



KNX-GW-MBUS-SK08

MBus Gateway for up to 3 MBus devices

Each MBus device with its own Screw-Type Terminal for MBus ID independent device identification.

60400008

188,00 €

Plastic housing: (115 x 65 x 55) mm

IP54/65

KNX Smart Metering

Impuls Counter IMPZ

This impuls counting modules with battery backed up memory and KNX coupling unit are designed for universal monitoring of consumption values in the KNX bus. The impuls counting module is available in an outdoor / damp room compliant IP54/65 plastic housing or as DIN Rail mounted device. The internal lithium back up battery enables the functionality without KNX bus connection for over 5 years

Meters with potential free impuls outputs (S0, relay, reed-switch) can be connected to the KNX-Bus independent of their medium. This measurement concept allows retrofitting smart metering into old installations.

The KNX-IMPZ2 contains two independent counters which can be used for different meters or even different media. Furthermore the two inputs can act as one meter with two tariffs, switching between the tariffs is done by the second input or via KNX.

Suitable Meters for the IMPZ are e.g. the meters of NZR, which are approved by the PTB.

In Home Water Meters WZ-M

The in home water meter is a package of the calibrated water meter „WZ-M“ from NZR and the impuls counting unit SK01-IMPZ1 from Arcus-EDS GmbH. The meter is approved by the PTB.

The internal lithium back up battery enables the functionality without KNX bus connection for over 5 years

Heat Quantity Meter WMZ

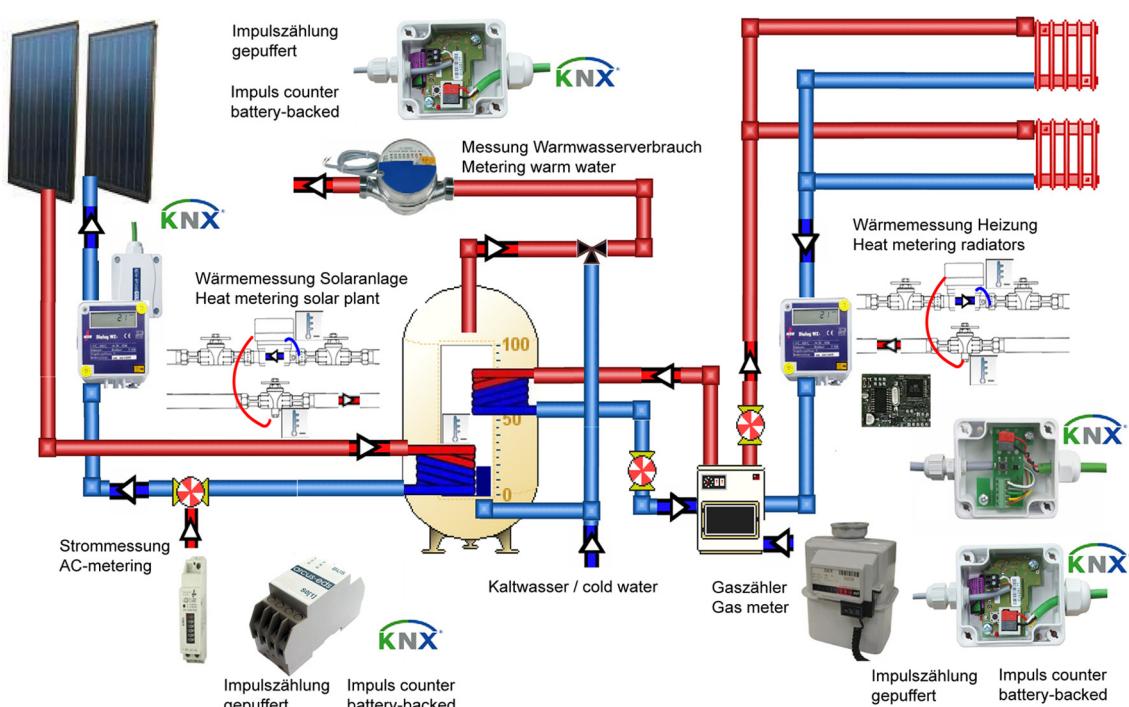
The heat quantity meter is a calibrated heat quantity meter „WZ-HY“ from NZR equipped with an internal KNX bus coupling unit from Arcus-EDS GmbH, it is is approved by the PTB.

The electronic counting unit is equipped with a lithium battery which assures 5 years lifetime and 1 year surplus. The bus coupling unit it mounted inside the sealed housing and nonreactive connected with the external terminal box.

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KNX Smart Metering



KNX-IMPZ

Impuls Counting Module KNX-IMPZ

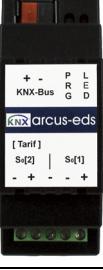
Product Group 1

Use case: Integration of consumption meters with impulse outputs into the KNX bus.

The counting unit is designed to be used with a S0-Interface (according EN 43864) but can also be used with other impulse outputs with a potential free contact.

Product Data Base: **IMPZx.vd4**

KNX Readable Data:	Serial number	Last reference value
	Accumulated consumption m ³	Last reference date
	Current flow rate m ³	Next reference date
	Time	Consumption Reset
	Date	Consumption last reset time
	Consumption value	Consumption last reset date

KNX-IMPZ	Article	Article Description	Article No.	List Price
KNX		Document: 5100_ex_IMPZ1.pdf Document: 5200_ex_IMPZ2.pdf		
	KNX-IMPZ1-SK01	1 Channel S0 counter module Plastic housing: (72 x 64 x 40) mm IP54/65	60201101	150,00 €
	KNX-IMPZ1-REG	1 Channel S0 counter module DIN Rail mounted housing 2 units width (35 mm) IP20	60201102	162,00 €
	KNX-IMPZ2-SK01	2 Channel S0 counter module Plastic housing: (72 x 64 x 40) mm IP54/65	60201201	186,00 €
	KNX-IMPZ2-REG	2 Channel S0 counter module DIN Rail mounted housing 2 units width (35 mm) IP20	60201202	198,00 €

KNX-GW-MBUS**KNX Gateway MBus****Product Group 1**

Use case: KNX bus coupling for counter with M-Bus interface

The M-bus gateway is a Master for M-Bus Systems according to the DIN EN 13757-2/3. The Master can supply and service up to 3 M-Bus devices. There are 32 M-Bus data points available, which can be assigned freely to the different devices.

Product Data Base: **MBUS_v4.vd5**

KNX Readable Data: For each MBus device

- Device Date
- Secondary Address

Per MBus data point (32 data points) as:

- 6-Byte Metering
- 4-Byte Float
- 4-Byte unsigned Integer
- Date
- Time



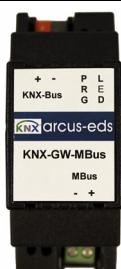
KNX-GW-MBUS-SK01

MBus Gateway for up to 3 MBus devices

Plastic housing: (72 x 64 x 40) mm

60400001

165,00 €



KNX-GW-MBUS-REG

MBus Gateway for up to 3 MBus devices

DIN Rail mounted housing
2 units width (35 mm)

60400002

177,00 €

KNX

Document: 4420_ex_MBUS-SK08.pdf



KNX-GW-MBUS-SK08

MBus Gateway for up to 3 MBus devices

Each MBus device with its own Screw-Type Terminal for MBus ID independent device identification.

60400008

188,00 €

KNX-IMPZ-WZ-M

In Home Water Meters Modularis WZ-M

Product Group 10

KNX	Document: 5300_ex_WZ-M.pdf
	<p>Product Data Base: IMPZx.vd4</p> <p>KNX Readable Data:</p> <ul style="list-style-type: none"> Serial number Accumulated volume in l or m³ Current flow rate in l or m³/unit of time Current time Current date Last reference date Last reference value Next reference date Consumption value Consumption Reset Consumption last reset date Consumption last reset time <p>Connection box: Plastic housing (72 x 64 x 40) mm</p> <p>Protection class: IP54/65</p>

WZ-M Technical Data	Remarks	Article No.	List Price
Nominal Flow Rate Nominal Diameter Maximum Flow Rate Installation Length	1,5 m³/h 15 mm 3 m ³ /h 80 mm	WZK-M cold 30°C	60201-75124015
		WZW-M hot 90°C	60201-75124515
Nominal Flow Rate Nominal Diameter Maximum Flow Rate Installation Length	1,5 m³/h 15 mm 3 m ³ /h 110 mm	WZK-M cold 30°C	60201-75124115
		WZW-M hot 90°C	60201-75124615
Nominal Flow Rate Nominal Diameter Maximum Flow Rate Installation Length	2,5 m³/h 20 mm 5 m ³ /h 130 mm	WZK-M cold 30°C	60201-75124025
		WZW-M hot 90°C	60201-75124525



Technical data and companion dimensions are available at NZR. www.nzr.de
The second part of our article no. equals the the NZR-article no.



All meters of the series WZ-M are equipped with an internal Impuls module,
they are MID approved and calibrated.

KNX-WZ-R5.M**KNX Heat Quantity Meter WZ-R5.M****Product Group 10**

KNX	Document: 4430_ex_WZ-R5.M.pdf	
	<p>Product Data Base: KNX-GW-MBUS-NZR</p> <p>KNX Readable Data:</p> <ul style="list-style-type: none"> Energy Volume Power Flow rate Return temperature Supply temperature Temperature difference <p>Reference value of the last 18 months</p> <p>Temperature range: 2 .. 120°C</p> <p>Temperature difference: 3 .. 90 K</p> <p>Arithmetic unit: IP54</p> <p>KNX module: IP52</p>	

KNX Heat Quantity Meter Dialog WZ-R5.M	Temperature probe	Article No.	List Price
Nominal diameter (DN) 15 Minimum flow 0.6 m³/h Connection AG meter 3/4 inch Connection AG thread 1/2 inch Length 110mm		6040-85123106	284,20 €
Nominal diameter (DN) 15 Minimum flow 1.5 m³/h Connection AG meter 3/4 inch Connection AG thread 1/2 inch Length 110mm	PT500 2-wire technology Cable length: 1,2m direct measuring	6040-85123115	284,20 €
Nominal diameter (DN) 20 Minimum flow 2.5 m³/h Connection AG meter 1 inch Connection AG thread 3/4 inch Length 130mm		6040-85123125	289,20 €



Technical data and companion dimensions as well as informations about mounting kits and adapters are available at NZR. www.nzr.de
The second part of our article no. equals the the NZR-article no.



All meters of the series WZ-HY are equipped with an internal KNX coupling unit, they are MID approved, sealed and calibrated.

KNX-LED Lighting



LED wall light with clear and smooth illumination up to 700 lm

Luminous flux: 350/700 lm
Connection power: 3.5/7 W
Luminous colour: warm white 2700K
cold white 5000K
CRI: 85-95, R8: 70-80, Energy efficiency: A+/++
saturated smooth light mixture

auxiliary voltage 24 - 32VDC required

adjusting and dimming via KNX-application

KNX-LED2 is a dual white LED lamp controlled via KNX-Bus.
Adjustable color temperature moods can be generated and adapt to daylight. The hemispherical lamp allows to create a wide range a diffuse soft background light.



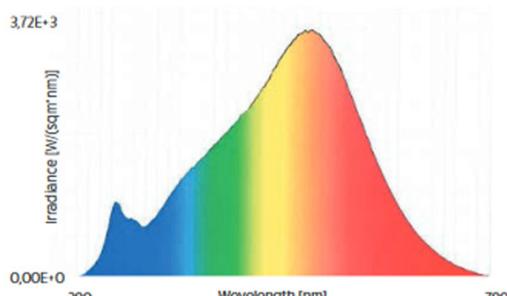
Flat wall light with light in a wide range of colors, illuminated sign

Luminous flux: 150 lm
Connection power: 3 W
Luminous colours: RGB + amber
fixed selectable saturated colours or
16 Million adjustable colours

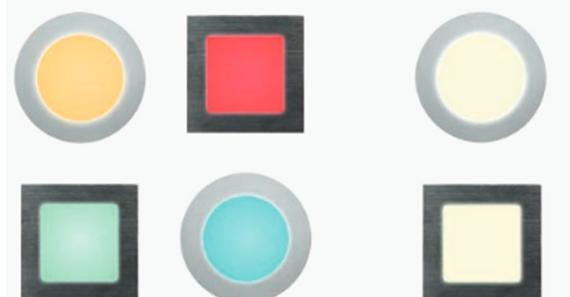
auxiliary voltage 24 - 32VDC required

adjusting via complex KNX-application

KNX LED4 is an RGB(A) LED lamp controlled via KNX-Bus. The light color for warning or information signaling can be selected via the KNX bus.
This opens up the possibilities of a professional access control to conference rooms, switch rooms, treatment rooms or hotel rooms.



luminous flux: 310,8 lm, color temperature 2792K



KNX-LED4 different light colors, square and round style variants

KNX-LED4 warm white

Housing variants	
ARE-H	Aluminum, round, anodised
ARB-H	Aluminum, round, black anodised
ARE	Aluminum, round, anodised
ARB	Aluminum, round, black anodised
AQS	Aluminum, square, polished, anodised
AQB	Aluminum, square, polished, black anodised

KNX Lighting

LED

KNX-LED4-Driver Unit		Document: 6030_ex_LED_DU.pdf	Product Group 1	
	KNX-LED -Driver Unit	LED driver for controlling RGB and dual white LED lights or strips. Color temperature adjustable, dimmable 2 binary contacts Total power: or 12VDC / 25W 24VDC / 50W IP20, standard flush mounting (60/68 mm)	41040070	147,00 €
KNX-LED2L		Document: 6010_ex_LED2.pdf	Product Group 1	
	KNX- LED2L-ARE-H KNX- LED2L-ARB-H	KNX light LED (half bulb) dual white Color temperature adjustable, dimmable 2 binary contacts Power: Luminous flux: 7 W 700 lm IP20, standard flush mounting (60/68 mm)	41020543 41020544	288,00 €
KNX-LED2S		Document: 6010_ex_LED2.pdf	Product Group 1	
	KNX- LED2S-ARE-H KNX- LED2S-ARB-H	KNX light LED (half bulb) dual white Color temperature adjustable, dimmable 2 binary contacts Power: Luminous flux: 3.5 W 350 lm IP20, standard flush mounting (60/68 mm)	41020443 41020444	279,00 €
KNX-LED2S		Document: 6011_ex_LED2.pdf	Product Group 1	
	KNX-LED2S -ARE KNX-LED2S -ARB	KNX light LED (round flat) dual white Color temperature adjustable, dimmable 2 binary contacts Power: Luminous flux: 3.5 W 350 lm IP20, standard flush mounting (60/68 mm)	41020413 41020414	278,00 €
KNX-LED2S		Document: 6011_ex_LED2.pdf	Product Group 1	
	KNX-LED2S -AQS KNX-LED2S -AQB	KNX light LED (square flat) dual white Color temperature adjustable, dimmable 2 binary contacts Power: Luminous flux: 3.5 W 350 lm IP20, standard flush mounting (60/68 mm)	41020423 41020424	278,00 €

KNX Lighting

LED

KNX-LED4		Document: 6020_ex_LED4.pdf	Product Group 1	
	KNX-LED4-ARE-H KNX-LED4-ARB-H	KNX light LED 4 channel RGB+A (half bulb) Color adjustable, dimmable 2 binary contacts Power: 3 W Luminous flux: 150 lm IP20, standard flush mounting (60/68 mm)	41040243	282,00 €

KNX-LED4		Document: 6020_ex_LED4.pdf	Product Group 1	
	KNX-LED4-ARE KNX-LED4-ARB	KNX light LED 4 channel RGB+A (round flat) Color adjustable, dimmable 2 binary contacts Power: 3 W Luminous flux: 150 lm IP20, standard flush mounting (60/68 mm)	41040213	281,00 €

KNX-LED4		Document: 6020_ex_LED4.pdf	Product Group 1	
	KNX-LED4-AQS KNX-LED4-AQB	KNX light LED 4 channel RGB+A (square flat) Color adjustable, dimmable 2 binary contacts Power: 3 W Luminous flux: 150 lm IP20, standard flush mounting (60/68 mm)	41040223	281,00 €

KNX Lighting

DMX

KNX-GW-DMX		Product Group 1
KNX	Document: 4200_ex_KNX-GW-DMX.pdf	
	KNX-GW-DMX	<p>The KNX-GW-DMX is a unidirectional gateway between the KNX-Bus and the DMX512-Bus used by a wide range of devices for lighting applications.</p> <p>Parametrization is done by the dedicated program DMX Configurator</p>
	KNX-GW-DMX-2TE	<p>40120186 325,00 €</p> <p>40120182 325,00 €</p>

KNX System Devices

Choke	Article	Article Description	Article No.	List Price
KNX-Drossel-DR16				Product Group 1
KNX, REG IP20		Document: 7010_ex_KNX_Drossel_DR16.pdf		
	KNX-Drossel-DR16	<p>Choke to decouple the KNX bus from the supply voltage.</p> <p>Rated voltage : 24 VDC Rated current: 1600 mA Operating temperature: -25 .. +55°C</p> <p>DIN Rail mounted housing 2 units width (35 mm) IP20</p>	66000016	80,00 €
GPS				Product Group 1
SK10L-GPS-SC-L		Document: 7020_ex_SK10L_GPS_SC_L.pdf		
	SK10L-GPS-SC-L	<p>Universal timer in the KNX bus Daily and weekly time switching clock Brightness and temperature sensor Time of sunset GPS coordinates</p> <p>Operating temperature: -25 .. +55 °C Measured range PT1000: -25 .. +55 °C Measured brightness range: 3 .. 220.000 lux</p> <p>Plastic housing: (72 x 64 x 45) mm</p> <p>The unit is shaded outdoors but mounted with good view of the sky IP54/65</p>	66100001	278,00 €
IP / LAN				Product Group 1
KNX-GW-IP-2TE		Document: 7030_ex_KNX_GW_IP_2TE.pdf		
	KNX-GW-IP-2TE	<p>IP gateway to link the ETS (PC software tool) to the KNX bus.</p> <p>Operating temperature: -25 .. +55°C</p> <p>DIN Rail mounted housing 2 units width (35 mm) IP20</p>	40400002	365,00 €

KNX-IP-Workstation	Article Description	Article No.	List Price
KNX-IP-Workstation		Product Group 1	
KNX, IP20	Document: xxx.pdf		
<p>The KNX-IP workstation connects all necessary hardware components required for the configuration of a KNX system with one line.</p> <p>The mobile unit is equipped with an IP gateway which allows the ETS software to be connected to the KNX devices via Ethernet.</p> <p>The IP gateway has implemented a group monitor and a telegram logger with SD card memory (max. 32GB). An address filter can be set for monitoring specific addresses.</p> <p>The complete range of functions can be found in the IP Gateway documentation (7030_ex_KNX_GW_IP_2TE.pdf).</p> <p>Box contents: KNX-IP-Workstation Power cord 1,5m Ethernet cable Cat6 2m KNX connection cable 4-pin 0,5m (1x throttled, 1x unthrottled)</p>			
		<p>The workstation consists of:</p> <ul style="list-style-type: none"> - Power supply unit 27VDC / 1,5A - KNX-Drossel-DR16 - KNX-GW-IP-2TE <p>Connections:</p> <ul style="list-style-type: none"> - Power connection 100-240 VAC / 1,1 A - Ethernet 10/100 BaseT (10/100 Mbit/s) - 3 throttled slots with control LED - 3 unthrottled slots with control LED 	
KNX-IP-Workstation		66000010	530,00 €

Components for HVAC Sensor

Article	Article Description	Article No.	List Price
In-Wall Mounted Probes PT1000 IP20			Product Group 2
	SK03-PT1000 white Temperature probe PT1000 with screw-in clamps Mounted on in-wall pattress (60/68 mm) Compatible to switching systems (e.g. Gira, Merten) in standard 55 mm. Indoor use only IP20	90104401	30,50 €
	SK03-PT1000 anthrazit Temperature probe PT1000 with screw-in clamps Mounted on in-wall pattress (60/68 mm) Compatible to switching systems (e.g. Gira, Merten) in standard 55 mm. Indoor use only IP20	90104402	30,50 €
Feed / Surface Mounted Probe PT1000 IP54/65			Product Group 2
	OFTF PT1000 PVC Feed temperature / surface probe Operating range: Cable length: IP54/65	-30 .. +105 °C PVC 1,5 m	90100001 18,95 €
Sleeve Probe PT1000 IP54/65			Product Group 2
	HTF PT1000 PVC Operating range: Cable length: IP54/65	-35 .. +105 °C PVC 1,5 m	90100002 11,75 €
	HTF PT1000 Silicone Operating range: Cable length: IP54/65	-50 .. +180 °C Silicone 1,5 m	90100003 16,10 €
	HTF PT1000 PTFE IP68 Operating range: Cable length: IP68	-50 .. +250 °C PTFE 1,5 m	90100055 22,36 €

Components for HVAC Sensor

Article	Article Description	Article No.	List Price
Product Group 2			
	ALTF1 PT1000 PVC	Feed temperature / pipe feed probe Operating range: -35 .. +105 °C Cable length: PVC 1,5 m	90100004 14,00 €
	ALTF1 PT1000 Silicone	Feed temperature / pipe feed probe Operating range: -35 .. +180 °C Cable length: Silicone 1,5 m	90100005 15,10 €
	ALTF2 PT1000	Feed temperature / pipe feed probe in plastic housing with contacting probe (PT1000) on the rear side of the terminal box. Operating range: -30 .. +110 °C	90100006 19,75 €
Product Group 2			
	ATF2 PT1000	Outdoor / damp room temperature probe in plastic housing (PT1000) Operating range: -50 .. +90 °C	90100007 27,80 €
Product Group 2			
	ESTF PT1000-50 PVC	G 1/2" 50 mm V4A Operating range: -35 .. +105 °C Cable length: PVC 1,5 m	90100008 28,50 €
	ESTF PT1000-100 PVC	G 1/2" 100 mm V4A Operating range: -35 .. +105 °C Cable length: PVC 1,5 m	90100009 29,60 €
	ESTF PT1000-50 Silicone	G 1/2" 50 mm V4A Operating range: -50 .. +180 °C Cable length: Silicone 1,5 m	90100010 29,50 €
	ESTF PT1000-100 Silicone	G 1/2" 100 mm V4A Operating range: -50 .. +180 °C Cable length: Silicone 1,5 m	90100011 30,60 €

Components for HVAC Sensor

Article	Article Description	Article No.	List Price
Ceiling Mounted Temperature Probe PT1000			Product Group 2
	DTF PT1000 Operating range: Cable length: IP30	-20 .. +90 °C ca. 135 mm	90100012 30,50 €
Pendulum Room Probe for Temperature PT1000 IP54/65			Product Group 2
	RPTF1 PT1000 Probe: Operating range: Cable length:	100 mm, M12 / 1,5 mm -5 .. +60 °C PVC 1,5 m	90100050 48,50 €
Pendulum Room Probe for Temperature PT1000 IP54/65			Product Group 2
	RPTF2 PT1000 Operating range: Cable length:	Pendulum room probe for temperature PT1000. in black plastic sphere (Ø 50 mm) for the acquisition of the temperature caused by radiant heat. -5 .. +60 °C PVC 1,5 m	90100051 48,60 €
Cable			Product Group 2
The Necessary Probe Cable Lengths are Manufactured on Demand.			
	AN-PVC- -T2x025	PVC LiYY 2 x 0,25 mm ² per meter	90200220 0,85 €
	AN-Silicone -T2x025	Silicone SiHF 2 x 0,25 mm ² per meter	90200221 1,55 €
	AN-PTFE -T2x100	PTFE Li-6Y6Y-OZ 2 x 1 mm ² per meter	90200223 2,50 €

Components for HVAC Sensor

Article	Article Description	Article No.	List Price
Pendulum Room Probe for Temperature and Humidity IP54/65			Product Group 2
	<p>RPFF (Sensirion)</p> <p>Pendulum room temperature / humidity probe with plastic sinter filter</p> <p>Probe: 100 mm</p> <p>Measured temperature range: -30 .. +80 °C</p> <p>Measured humidity range: 0 .. 95% r.H.</p> <p>Cable length: PVC 2m</p>	90100054	81,00 €
Pendulum Room Probe for Temperature and Humidity (Condensation Proof) IP54/65			Product Group 2
	<p>RPFF-MMF (Sensirion)</p> <p>Pendulum room humidity / temperature probe with metal membrane filter (condensation proof)</p> <p>Probe: 100 mm</p> <p>Measured temperature range: -30 .. +80 °C</p> <p>Measured humidity range: 0 .. 95% r.H.</p> <p>Cable length: PVC 2m</p>	90100056	104,00 €
Temp-probe PT1000, assembled for SK07			Warengruppe 1
	<p>PT1000-SK07</p> <p>Measured temperature range: -50 .. +150 °C</p> <p>Cable length: PVC 10cm</p>	99101071	23,00 €
Temp-Humid probe, assembled for SK07			Warengruppe 1
	<p>SHT71-SK07</p> <p>Measured temperature range: -25 .. +80 °C</p> <p>Measured humidity range: 0 .. 95% r.H.</p> <p>Cable length: PVC 12cm</p>	99171071	34,00 €

Components for the KNX Measuring System S8

Article	Article Description	Article No.	List Price
Water Quality Probe pH and ORP for WAQ			Product Group 9
	WAQ Probe set single-rod measuring cells	Standard probes for pH & ORP to use with SK08-WAQ	91110020 165,72 €
Global Radiation Probe for GLBS			Product Group 9
	GLBS -DAV6450	Global radiation sensor element for the SK08-GLBS	91110021 160,00 €
	Mountkit-GLBS	Mounting kit for GLBS sensor	91110022 27,00 €
Soil Moisture Probe Watermark® WMT			Product Group 2
	WMT	Watermark® -soil moisture probe with temperature sensor element with underground cable (length 5 m)	91100000 98,00 €
	AN-WMT	Underground cable for WMT (each additional meter)	90200500 1,65 €

Components for Touch_IT C3

Article	Article Description	Article No.	List Price
Temperature Sensor 1 Wire			Product Group 2
	1 Wire DTF	Ceiling mounted temperature probe Operating temperature: -55 .. +125 °C Accuracy: ± 0,5 °C Cable length: PVC 2,5m	90100013 24,90 €
Sleeve temperature probe			
	1 Wire HTF	Operating temperature: -55 .. +125 °C Accuracy: ± 0,5 °C Cable length: Silicone 3m	90100014 23,63 €

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