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KNX-IMPZ2	2-Channel impuls counter for indoor/outdoor/damp room application For gas, water, electricity, optional as 2 tariffs counter, on-wall mounted	IP65	3
KNX-IMPZ2 REG	2-Channel impuls counter for indoor application For gas, water, electricity, optional as 2 tariffs counter, DIN rail mounted	IP20	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	WZ-M	4
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Components / replacement parts			Z

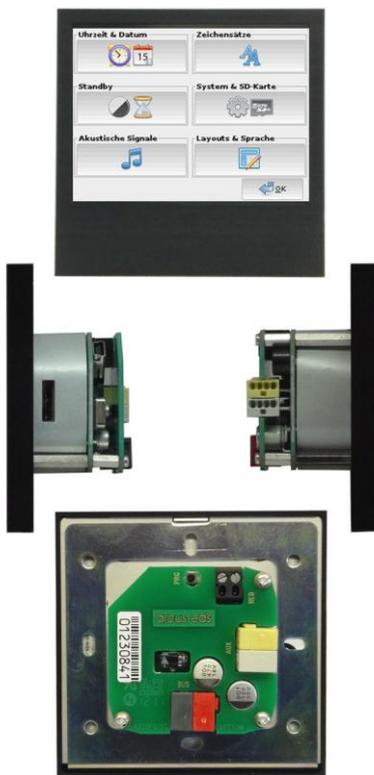
VISU

3,5" TFT Display with touchscreen

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.	Product gr.
Touch_IT C3 IP65				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 1101_Touch_IT-IP65_xx.pdf		
	Touch_IT C3 -AE-IP65	3,5" Display for on-wall mounting 120 x 80 x 48 mm Aluminium anodized, plastic subshell For indoor / outdoor and damp room, IP65	22310265	1

Touch_IT C3 Aluminium sandblasted				
EIB/KNX, in-wall, indoor, IP20		Document: 1102_Touch_IT-UP_xx.pdf		
	Touch_IT C3 -AE	3,5" Display metal housing 82 x 82 x 8 mm with bevel Aluminium sandblasted anodized Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60 / 68 mm)	22310200	1
	Touch_IT C3 -AW	3,5" Display metal housing 82 x 82 x 8 mm with bevel Aluminium sandblasted white powder-coated Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60 / 68 mm)	22310201	1
	Touch_IT C3 -SAE	3,5" Display metal housing 80,5 x 80,5 x 8 mm square-edged Aluminium sandblasted anodized Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60 / 68 mm)	22310300	1

VISU	Article	Article description	Article no.	Product gr.
Touch_IT C3 Aluminium sanded				
EIB/KNX, in-wall, indoor, IP20		Document: 1102_Touch_IT-UP_xx.pdf		
	Touch_IT C3 -SAS	3,5" Display metal housing 80,5 x 80,5 x 8 mm square-edged Aluminium sanded anodized Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60 / 68 mm)	22310303	1
	Touch_IT C3 -SAB	3,5" Display metal housing 80,5 x 80,5 x 8 mm square-edged Aluminium sanded black anodized Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60 / 68 mm)	22310304	1
	Touch_IT C3 -SAG	3,5" Display metal housing 80,5 x 80,5 x 8 mm square-edged Aluminium sanded steel grey anodized Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60 / 68 mm)	22310305	1
Touch_IT C3 Brass				
EIB/KNX, in-wall, indoor, IP20		Document: 1102_Touch_IT_UP_xx.pdf		
	Touch_IT C3 -SMB	3,5" Display metal housing 80,5 x 80,5 x 8 mm square-edged Brass sanded bronzed Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60 / 68 mm)	22310400	1
	Touch_IT C3 -SMG	3,5" Display metal housing 80,5 x 80,5 x 8 mm square-edged Brass polished gold plated Mounted using subplate (included) magnetic fixture and theft protection screw into standard in-wall pattress (60 / 68 mm)	22310407	1

KNX-Sensors Temperature		Sensor: PT1000
<p>T</p> <p>Sensors with integrated KNX-Bus coupler for measuring and regulating temperature. No auxiliary voltage necessary.</p> <p>Product Data Base ARC_TFK.VD2</p> <p>Application description 2100_xx_HVAC_T.pdf</p> <p>ETS-Application:</p> <ul style="list-style-type: none"> - 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 		

SK01-T	Article	Article description	Article no.	Product gr.
SK01 without Temperature Probe				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2101_xx_SK01-T.pdf		
	SK01-T	KNX Sensor / Controller Temperature Operating temperature: -25 .. +80 °C Plastic housing: 72 x 64 x 40 mm For indoor / outdoor and damp room, IP65 Without temperature sensor (PT1000)	30101000	1
SK01 with Surface Contacting Probe				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2102_xx_SK01-T-OFTF.pdf		
	SK01-T-OFTF	KNX Sensor / Controller Temperature Surface-Contacting sensor, square, for flat surfaces. The aluminium casing of the PT1000 temperature sensor is attached to the surface with glue. Operating temperature: -25 .. +80°C Measured temperature range: -30 .. +105°C Dimensions sensor: 8 x 8 x 40 mm Connecting cable: PVC 1,5 m Plastic housing: 72 x 64 x 40 mm	30101001	1

SK01-T	Article	Article description	Article no.	Product gr.
SK01 with Sleeve Probe				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2103_xx_SK01-T-HTF.pdf		
<p>KNX Sensor / Controller Temperature With sleeve sensor (PT1000) for temperature detection in liquid and gaseous media using an immersion sleeve.</p> <p>Sensor: 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, IP65 with Teflon cable IP68</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 IP65	30101002	1
	SK01-T-HTF Silicone 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +180 °C Connecting cable: Silicone 1,5 m IP65	30101003	1
	SK01-T-HTF Teflon 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +250 °C Connecting cable: Teflon 1,5 m IP68	30101055	1
SK01 with Contacting / Tube Contacting Probe				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2104_xx_SK01-T-ALTF1.pdf		
<p>KNX Sensor / Controller Temperature with axial sensor 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, IP65</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 IP65	30101004	1
	SK01-T-ALTF1 Silicone 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +180 °C Connecting cable: Silicone 1,5 m IP65	30101005	1

SK01-T	Article	Article description	Article no.	Product gr.
SK01 with Tube Contacting Probe				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2105_xx_SK01-T-ALTF2.pdf		
	SK01-T-ALTF2	<p>KNX Sensor / Controller Temperature with contacting sensor (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</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +110 °C</p> <p>Plastic housing: 72 x 64 x 40 mm</p>	30101006	1
SK01 with External Sensor				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2106_xx_SK01-T-ATF2.pdf		
	SK01-T-ATF2	<p>KNX Sensor / Controller Temperature The PT1000 sensor is enclosed in a V4A stainless steel sheath tube (30mm, Ø 6mm).</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +90 °C</p> <p>Plastic housing: 72 x 64 x 40 mm</p>	30101007	1
SK01 with Screw-in / Immersion Probe-Cable Connection				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2107_xx_SK01-T-ESTF.pdf		
<p>KNX Sensor / Controller Temperature The PT1000 sensor is in a brass sheath tube (Ø8mm 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, IP65</p>				
	SK01-T-ESTF 50 mm PVC 1,5 m	<p>Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C Probe: G1/2", 50 mm</p>	30101008	1
	SK01-T-ESTF 100 mm PVC 1,5 m	<p>Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C Probe: G1/2", 100 mm</p>	30101009	1
	SK01-T-ESTF 50 mm Silicone 1,5 m	<p>Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +180 °C Probe: G1/2", 50 mm</p>	30101010	1
	SK01-T-ESTF 100 mm Silicone 1,5 m	<p>Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +180 °C Probe: G1/2", 100 mm</p>	30101011	1

SK01-T	Article	Article description	Article no.	Product gr.
SK01 with Screw-in / Immersion Probe, Brass Immersion Sleeve				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2108_xx_SK01-T-ETF1.pdf		
<p>KNX Sensor / Controller Temperature The PT1000 sensor is in a brass sheath tube (G1/2", Ø 6mm), which is inside a brass immersion sleeve (Ø 8mm, 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, IP65</p>				
	SK01-T-ETF1 50mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101013	1
	SK01-T-ETF1 100mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101014	1
	SK01-T-ETF1 150mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101015	1
	SK01-T-ETF1 200mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101016	1
	SK01-T-ETF1 250mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101017	1
	SK01-T-ETF1 300mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101018	1
	SK01-T-ETF1 400mm brass	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101019	1
SK01 with Screw-in Immersion Probe, Immersion Sleeve V4A				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2109_xx_SK01-T-ETF2.pdf		
<p>KNX Sensor / Controller Temperature The PT1000 sensor is in a V4A steel sheath tube (G1/2", Ø 6mm), which is inside a V4A immersion sleeve (Ø 8mm, 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, IP65</p>				
	SK01-T-ETF2 50mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101020	1
	SK01-T-ETF2 100mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101021	1
	SK01-T-ETF2 150mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101022	1
	SK01-T-ETF2 200mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101023	1
	SK01-T-ETF2 250mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101024	1
	SK01-T-ETF2 300mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101025	1
	SK01-T-ETF2 400mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101026	1

SK01-T	Article	Article description	Article no.	Product gr.
SK01 with Screw-in Immersion Probe, Immersion Sleeve with Extended Shaft V4A				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2110_xx_SK01-T-ETF3.pdf		
<p>KNX Sensor / Controller Temperature The PT1000 sensor is in a V4A steel sheath tube (G1/2", Ø 6mm), 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, IP65</p>				
	SK01-T-ETF3 50mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101027	1
	SK01-T-ETF3 100mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101028	1
	SK01-T-ETF3 150mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101029	1
	SK01-T-ETF3 200mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101030	1
	SK01-T-ETF3 250mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101031	1
	SK01-T-ETF3 300mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101032	1
	SK01-T-ETF3 400mm V4A	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	30101033	1
SK01 with Screw-in/Immersion Probe with Ext. Shaft with Neck Tube for Quick Responsivity				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2111_xx_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 6mm, plain tapered Ø 4mm Protective material: stainless steel</p> <p>Plastic housing: 72 x 64 x 40 mm For indoor / outdoor and damp room, IP65</p>				
	SK01-T-ETF7 100 mm	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +150 °C Probe: G1/2", 100 mm	30101034	1
	SK01-T-ETF7 150 mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C Probe: G1/2", 150 mm	30101035	1
	SK01-T-ETF7 250 mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C Probe: G1/2", 250 mm	30101036	1

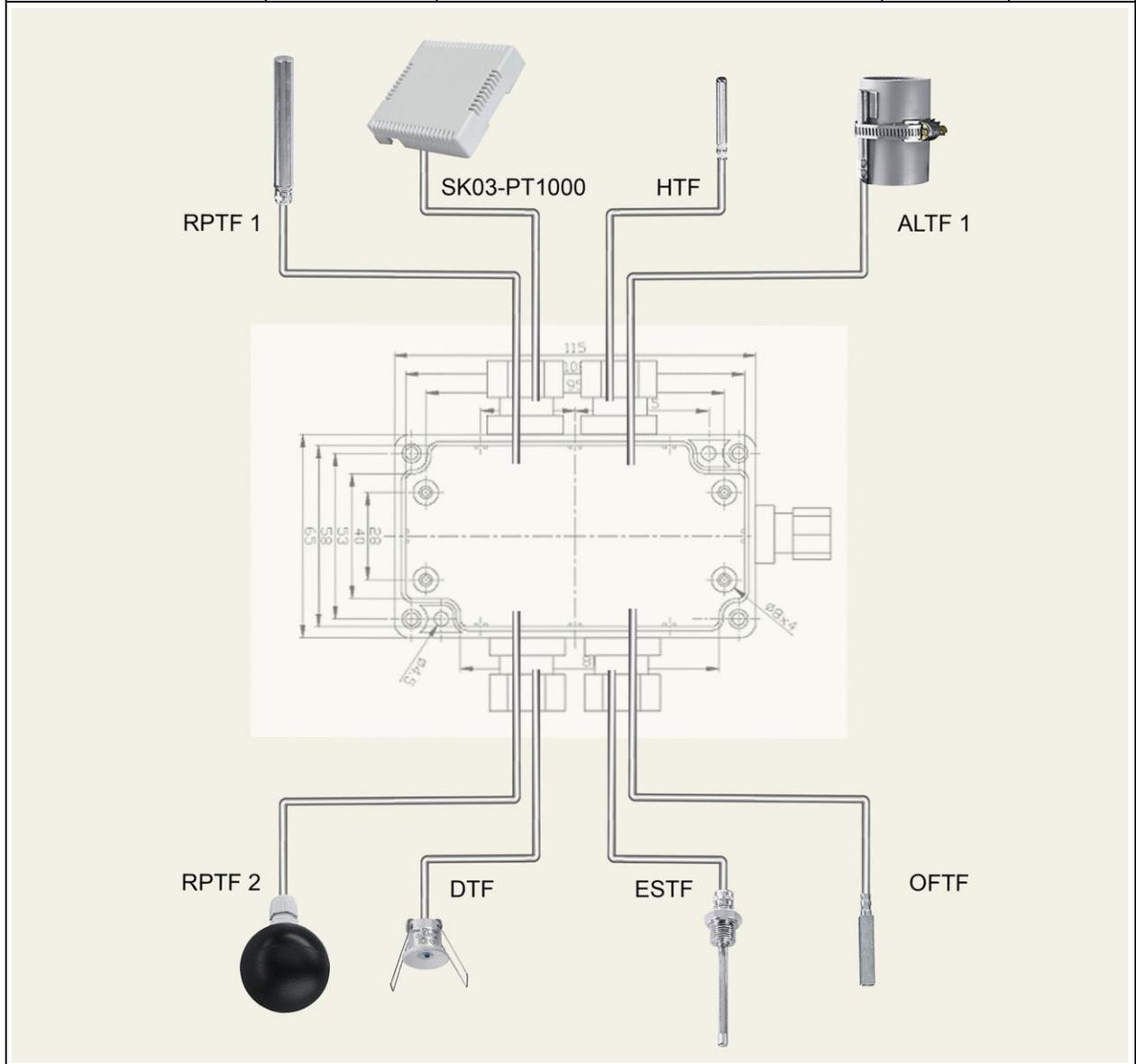
SK01-T	Article	Article description	Article no.	Product gr.
SK01 with Duct/Air Duct Probe incl. Mounting Flange V4A				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2112_xx_SK01-T-KTF1.pdf		
<p>KNX Sensor / Controller Temperature The PT1000 sensor is in a V4A stainless steel sheath tube (Ø 6mm). 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 For indoor / outdoor and damp room, IP65</p>				
	SK01-T-KTF1 50 mm V4A	Measured temperature range: Probe:	-30 .. +150 °C 50 mm	30101037 1
	SK01-T-KTF1 100 mm V4A	Measured temperature range: Probe:	-30 .. +150 °C 100 mm	30101038 1
	SK01-T-KTF1 150 mm V4A	Measured temperature range: Probe:	-30 .. +150 °C 150 mm	30101039 1
	SK01-T-KTF1 200 mm V4A	Measured temperature range: Probe:	-30 .. +150 °C 200 mm	30101040 1
	SK01-T-KTF1 250 mm V4A	Measured temperature range: Probe:	-30 .. +150 °C 250 mm	30101041 1
	SK01-T-KTF1 300 mm V4A	Measured temperature range: Probe:	-30 .. +150 °C 300 mm	30101042 1
	SK01-T-KTF1 400 mm V4A	Measured temperature range: Probe:	-30 .. +150 °C 400 mm	30101043 1

SK01-T	Article	Article description	Article no.	Product gr.
SK01 with Pendulum Room Probe				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2113_xx_SK01-T-RPTF1.pdf		
	SK01-T-RPTF1	<p>KNX Sensor / Controller Temperature</p> <p>Temperature sensor PT1000 is in sheath tube. Installation in rooms with a high ceiling with a suspended sensor.</p> <p>Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +75 °C Probe: 100 mm, M12 / 1,5 mm Connecting cable: PVC 1,5 m</p> <p>Plastic housing: 72 x 64 x 40 mm For indoor / outdoor and damp room, IP65</p>	30101050	1
SK01 with Pendulum Room Probe (globe thermometer)				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2114_xx_SK01-T-RPTF2.pdf		
	SK01-T-RPTF2	<p>KNX Sensor / Controller Temperature</p> <p>Temperature sensor PT1000 is in a black plastic sphere d = 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: -30 .. +80 °C Connecting cable: PVC 1,5 m</p> <p>Plastic housing: 72 x 64 x 40 mm For indoor / outdoor and damp room, IP65</p>	30101051	1

SK02-T	Article	Article description	Article no.	Product gr.
SK02		Temperature probe integrated in box		
EIB/KNX, on-wall, indoor, IP20		Document: 2115_xx_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	1

SK03-T	Article	Article description	Article no.	Product gr.
SK03		Temperature probe integrated in box		
EIB/KNX, in-wall, indoor, IP20		Document: 2116_xx_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 68 mm in-wall pattress. Compatible with switching systems (e.g. Gira, Merten in standard 55mm).</p> <p>For in-wall mounting in dry interiors IP20</p>				
	SK03-T	<p>Plastic housing: white</p> <p>Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C</p> <p>Frame: 55 mm</p> <p>For in-wall mounting in dry interiors IP20</p>	30103201	1
	SK03-T	<p>Plastic housing: anthrazit</p> <p>Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C</p> <p>Frame: 55 mm</p> <p>For in-wall mounting in dry interiors IP20</p>	30103202	1

SK08-T8	Article	Article description	Article no.	Product gr.
SK08-T8		Multiple-PT1000		
EIB/KNX, on-wall, outdoor / damp room, IP65				
	SK08-T8	<p>KNX Controller 8 Channel Temperature for measuring and controlling up to 8 temperatures</p> <p>Plastic housing: 115 x 65 x 50 mm For indoor / outdoor and damp room, IP65</p> <p>Without temperature sensors</p> <p>More Information see rubric E: Physical and chemical measurement instrumentation S8</p>	30801000	1



KNX-Sensors Temperature / Humidity / Climate

Sensor: Sensirion SHT11/

TFK

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

Product Data Base **ARC_TFK.VD2**

Application description **2200_HVAC_TFK_xx.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

SK01-TFK	Article	Article description	Article no.	Product gr.
SK01 with External Probe				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2201_xx_SK01-TFK-AFF.pdf		
	SK01-TFK -AFF	KNX Sensor / Controller Temperature / Humidity / Climate The probe is protected from dust by a poroplast protective coating. Application: building automation, refrigeration, airconditioning and ventilation systems, clean rooms, greenhouses, etc. Probe length: 45 mm Operating temperature range : -20 .. +80 °C Measured humidity range: 10 .. 90% r.H. Plastic housing: 72 x 64 x 40 mm For indoor / outdoor and damp room, IP65	30301053	1

SK01-TFK	Article	Article description	Article no.	Product gr.
SK01 with Pendulum room probe				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2202_xx_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, IP65				
	SK01-TFK -RPFF	The probe is protected from dust by a poroplast protective coating and is used as a pendulum room sensor. Probe: 100 mm Connecting cable: 2 m Operating temperature range: -20 .. +80 °C Measured humidity range: 10 .. 100% r.H. Plastic housing: 72 x 64 x 40 mm For indoor / outdoor and damp room, IP65	30301054	1
	SK01-TFK -RPFF -MMF	The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor. Probe: 100 mm Connecting cable: 2 m Operating temperature: -20 .. +80 °C Measured temperature range: -20 .. +80 °C Measured humidity range: 10 .. 100% r.H. Plastic housing: 72 x 64 x 40 mm For indoor / outdoor and damp room, IP65	30301056	1

SK01-TFK	Article	Article description	Article no.	Product gr.
SK01 with Duct Probe				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2203_xx_SK01-TFK-KFF.pdf		
	SK01-TFK -KFF	KNX Sensor / Controller Temperature / Humidity / Climate 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. Installation: The boxes are fixed to the air duct with a plastic sleeve and two screws. Operating temperature: -20 .. +80 °C Measured temperature range: -20 .. +80 °C Measured humidity range: 10 .. 90% r.H. Plastic housing: 72 x 64 x 40 mm For indoor / outdoor and damp room, IP65	30301057	1

SK02-TFK	Article	Article description	Article no.	Product gr.
SK02		Temperature Probe Integrated in Box		
EIB/KNX, on-wall, indoor, IP20		Document: 2204_xx_SK02-TFK.pdf		
	SK02-TFK	KNX Sensor / Controller Temperature / Humidity / Climate Use: detecting and controlling room temperature in homes, hotels, offices, exhibition areas and schools. Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C Humidity range: 10 .. 90% r.H. Plastic housing: 71 x 71 x 25 mm For in-wall mounting in dry interiors IP20	30302201	1

SK03-TFK	Article	Article description	Article no.	Product gr.
SK03		Temperature probe integrated in box		
EIB/KNX, in-wall, indoor, IP20		Document: 2205_xx_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 55mm). Mounted with two spring clips with cable ring (included) for a 68mm in-wall pattress. For in-wall mounting in dry interiors IP20				
	SK03-TFK	Plastic housing: white Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C Humidity range: 10 .. 90% r.H. Frame: 55 mm For in-wall mounting in dry interiors IP20	30303201	1
	SK03-TFK	Plastic housing: anthrazit Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C Humidity range: 10 .. 90% r.H. Frame: 55 mm For in-wall mounting in dry interiors IP20	30303202	1

Ax-TFK	Article	Article description	Article no.	Product gr.
Ax-TFK		Temperature Probe Integrated in Box		
EIB/KNX, in-wall, indoor, IP20		Document: 2206_xx_Ax-TFK.pdf		
<p>KNX Sensor / Controller Temperature / Humidity / Climate</p> <p>Detecting and controlling room climate in homes, hotels, offices, exhibition areas and schools.</p> <p>Magnetic fixture with metal frame (included) for 60/68mm in-wall pattress mounting.</p> <p>For in-wall mounting in dry interiors IP20</p>				
	AE-TFK	<p>Metal housing 82 x 82 x 8 mm with bevel Aluminium sandblasted anodized</p> <p>Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C Operating humidity range: 10 .. 90% r.H.</p>	30304200	1
	AW-TFK	<p>Metal housing 82 x 82 x 8 mm with bevel Aluminium sandblasted white powder-coated</p> <p>Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C Operating humidity range: 10 .. 90% r.H.</p>	30304201	1

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

TTFK

Sensors 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.VD2**

Application description **2300_HVAC_TTFK_xx.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 sensor PT1000) with two-position controller

SK01-TTFK	Article	Article description	Article no.	Product gr.
SK01 with External Probe				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2301_xx_SK01-TTFK-AFF.pdf		
	SK01-TTFK -AFF	KNX Sensor / Controller Temperature / Temperature / Humidity / Climate /Dewpoint control The temperature/humidity probe is protected from dust by a poroplast protective coating. Application: building automation, refrigeration, airconditioning and ventilation technology, greenhouses etc. Probe: 45 mm, Ø = 14 mm Operating temperature: -25 .. +55 °C Measured temperature range: -20 .. +80 °C Humidity range: 10 .. 90% r.H. Plastic housing: 72 x 64 x 40 mm For indoor / outdoor and damp room, IP65 An additional PT1000 Sensor not included in delivery.	30401053	1
		An additional PT1000 Sensor for surface mounting, screwing in or contacting with customized cable-length can be ordered. (see rubric Z, components / replacement parts)		

SK01-TTFK	Article	Article description	Article no.	Product gr.
SK01 with Pendulum room probe				
EIB/KNX, on-wall, outdoor / damp room, IP65		Document: 2302_xx_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, IP65				
	SK01-TTFK-RPFF	The temperature/humidity probe is protected from dust by a poroplast protective coating. Probe: 100 mm Connecting cable: 2 m Operating temperature: -25 .. +55 °C Measured temperature range: -20 .. +80 °C Humidity range: 10 .. 90% r.H. Plastic housing: 72 x 64 x 40 mm For indoor / outdoor and damp room, IP65 An additional PT1000 Sensor not included in delivery.	30401054	1
	SK01-TTFK-RPFF-MMF	The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor. Probe: 100 mm Connecting cable: 2 m Operating temperature: -25 .. +55 °C Measured temperature range: -20 .. +80 °C Humidity range: 10 .. 100% r.H. Plastic housing: 72 x 64 x 40 mm For indoor / outdoor and damp room, IP65 An additional PT1000 Sensor not included in delivery.	30401056	1
		An additional PT1000 Sensor for surface mounting, screwing in or contacting with customized cable-length can be ordered. (see rubric Z, components / replacement parts)		

SK03-TTFK	Article	Article description	Article no.	Product gr.
SK03	Temperature probe integrated in box			
EIB/KNX, in-wall, indoor, IP20	Document: 2304_xx_SK03-TTFK.pdf			
<p>KNX Sensor / Controller Temperature / Temperature / Humidity / Climate / Dewpoint control</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 68 mm in-wall pattress. Compatible with switching systems (e.g. Gira, Merten in standard 55mm).</p> <p>For in-wall mounting in dry interiors IP20</p>				
	SK03-TTFK	Plastic housing: white Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C Humidity range: 10 .. 90% r.H. Frame: 55 mm An additional PT1000 Sensor not included in delivery.	30403201	1
	SK03-TTFK	Plastic housing: anthrazit Operating temperature: -25 .. +55 °C Measured temperature range: -25 .. +55 °C Humidity range: 10 .. 90% r.H. Frame: 55 mm An additional PT1000 Sensor not included in delivery.	30403202	1
		An additional PT1000 Sensor for surface mounting, screwing in or contacting with customized cable-length can be ordered. (see rubric Z, components / replacement parts)		

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.VD2**

- 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)

T8	Article	Article description	Article no.	Product gr.
SK08-T8		Multiple PT1000		
EIB/KNX, Indoor / Outdoor, IP65		Document: 3100_xx_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, IP65</p> <p>Use case: Monitoring and control of temperatures in heating-/cooling- or informational applications. The temperature sensors (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>				
	SK08-T8	<p>KNX Controller 8 Channel Temperature for measuring and controlling up to 8 temperatures</p> <p>Plastic housing: 115 x 65 x 50 mm For indoor / outdoor and damp room, IP65</p> <p>Operating temperature: -20 .. +80 °C Measured temperature range: -30 .. +180 °C Without temperature sensor</p> <p>For applicable sensors see rubric Z, components / replacement parts</p>	30801000	1

WAQ	Article	Article description	Article no.	Product gr.
SK08-WAQ		Water quality – pH-ORP		
EIB/KNX, Indoor / Outdoor, IP65		Document: 3200_xx_SK08-WAQ.pdf		
<p>KNX Sensor / Controller Galvanic isolated instrumentation amplifier and bus couple unit for measurement and control of the water quality indicators, pH and ORP.</p> <p>For monitoring and control of the water quality in aquariums, swimming pools, ponds and service water systems.</p> <p>For indoor / outdoor and damp room applications, IP65</p>				
	SK08-WAQ	KNX Sensor / controller for Water quality Plastic housing: 115 x 65 x 50 mm without Measuring Electrode Units	30802000	1
SK08-WAQ-MES		Water quality – pH-ORP		
EIB/KNX, Indoor / Outdoor, IP65		Document: 3200_xx_SK08-WAQ.pdf		
	SK08-WAQ-MES	KNX Sensor / controller for Water quality Plastic housing: 115 x 65 x 50 mm with Measuring Electrode Units included Operating temperature: 0 .. +50 °C	30802001	10

CO2-TF	Article	Article description	Article no.	Product gr.
X-S8-CO2-TF		CO2 / temperature / humidity / climate		
EIB/KNX, Indoor, IP20		Document: 3300_xx_X-S8-CO2-TF.pdf		
<p>KNX Sensor / controller for monitoring and control of CO2-concentration and room climate values as temperature, humidity and dewpoint temperature.</p> <p>Use case: Monitoring and control of CO2-concentration and air quality in offices, conference rooms, hotels, schools, workspaces etc. Monitoring and control of the climate in indoor applications.</p> <p>Auxiliary power necessary: 9 .. 30 VDC 250 mW</p>				
	AE -S8-CO2-TF	<p>Metal housing 82 x 82 x 8 mm with bevel Aluminium sandblasted, anodized</p> <p>Operating temperature: -25 .. +55 °C Operating humidity range: 10 .. 90% r.H. CO2 measuring range: 0 .. 5000 ppm</p> <p>Magnetic fixture with metal frame (included) for 60/68mm in-wall pattress mounting IP20</p>	30803040	10
	AW -S8-CO2-TF	<p>Metal housing 82 x 82 x 8 mm with bevel Aluminium sandblasted White powder coated</p> <p>Operating temperature: -25 .. +55 °C Operating humidity range: 10 .. 90% r.H. CO2 measuring range: 0 .. 5000 ppm</p> <p>Magnetic fixture with metal frame (included) for 60/68mm in-wall pattress mounting IP20</p>	30803041	10
	SK04 -S8-CO2-TF	<p>Plastic housing 121 x 70 x 24 mm</p> <p>Operating temperature: -10 .. +55 °C Operating humidity range: 10 .. 90% r.H. CO2 measuring range: 0 .. 5000 ppm</p> <p>On-wall mounting in dry indoor applications IP20</p>	30803050	10

GLBS	Article	Article description	Article no.	Product gr.
SK08-GLBS-MES		Global radiation		
EIB/KNX, Indoor / Outdoor, IP65		Document: 3400_xx_SK08-GLBS.pdf		
	SK08-GLBS -MES	<p>KNX - Global radiation sensor, silicon pyranometer and Busmodul included Range: 0 .. 1800 W/m² Accuracy: 5% Spectral range: 400 .. 1100 nm Temperature range: -40 .. +65°C Drift: typical 2%/A With bubble level for exact leveling</p> <p>UV-resistant plastic housing (Sensor only) 115 x 65 x 50 mm</p> <p>Connection cable length: 1 m</p>	30804001	10

BFT	Article	Article description	Article no.	Product gr.
SK08-BFT-WMT		Soil moisture / temperature		
EIB/KNX, Indoor / Outdoor, IP65		Document: 3500_xx_SK08-BFT.pdf		
	SK08-BFT -WMT inkl. Watermark® Bodenfeuchte Sensor	<p>KNX-Sensor / controller for monitoring and control of soil moisture and soil temperature. (PT1000) with Watermark®-WM (maintenance free) soil moisture sensor. The integrated controller allows automatic irrigation dependent on the real demands of water.</p> <p>Plastic housing: 115 x 65 x 50 mm</p> <p>Connection cable Watermark®-WM: 5 m</p> <p>Other lengths available (see rubric Z, components / replacement parts)</p>	30805001	10

BFTLFT	Article	Article description	Article no.	Product gr.
SK08-BFTLFT-AFF-WMT		Soil moisture / temperature + air temp/hum.		
EIB/KNX, Indoor / Outdoor, IP65		Document: 3600_xx_SK08-BFTLFT.pdf		
	SK08-BFTLFT -AFF-WMT inkl. Watermark® Bodenfeuchte Sensor	<p>KNX-Sensor / controller for monitoring and control of soil moisture and soil temperature. (PT1000) with Watermark®-WM (maintenance free) soil moisture sensor. additionally 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 50 mm</p> <p>Connection cable Watermark®-WM: 5 m</p> <p>Other lengths available (see rubric Z, components / replacement parts)</p>	30805021	10

F	Article	Article description	Article no.	Product gr.
X-S8-F		Ultrasonic fill level measurement system		
EIB/KNX, Indoor / Outdoor, IP65		Document: 3700_xx_X-S8-F.pdf		
	<p>Ultrasonic sensor / controller for monitoring and control of fill levels in cisterns, reservoirs , pools or tanks with KNX coupling unit.</p> <p>The ultrasonic level sensor system LevelJET from ProJET evaluates the levels in reservoirs of many construction types. Minimal and maximal levels can be set on site. The bus coupling unit enables to use the values in the KNX-Bus.</p> <p>Use case: Monitoring and control of liquid levels in cisterns and tanks.</p> <p>Additional supply of 9 .. 12 VDC 35 mA necessary . Wall power supply included in delivery</p> <p>Two housings are available as shown below</p>			
	SK01-S8-F -ST	SK01 plastic housing 72 x 64 x 40 mm IP65 Mounted with 2 screws onto the wall. Measuring range: 0,15 .. 2,5 m	30807001	10
	REG-S8-F -ST	DIN Rail mounted housing 2 units width (35 mm) IP20 Measuring range: 0,15 .. 2,5 m	30807002	10
	SK01-S8-F -HR-6	SK01 plastic housing 72 x 64 x 40 mm IP65 Mounted with 2 screws onto the wall. Measuring range: 0,75 .. 6 m	30807011	10
	REG-S8-F -HR-6	DIN Rail mounted housing 2 units width (35 mm) IP20 Measuring range: 0,75 .. 6 m	30807012	10

AN2	Article	Article description	Article no.	Product gr.
SK01-S8-AN2		Analog modul 2-fold		
EIB/KNX, Indoor / Outdoor, IP65		Document: 3800_xx_SK01-S8-AN2.pdf		
	SK01-S8-AN2	<p>KNX Dataconverter / controller for monitoring and control of two analog voltages. Input range 0 to 12V.</p> <p>Plastic housing: 72 x 64 x 40 mm For indoor / outdoor and damp room, IP65</p>	30806200	1

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.

Free download at www.arcus-eds.com.

KNX Funktion modul / Gateways



Technical data

Outline:	107 x 75 x 31 mm
Mounting options:	REG (6TE)
Protection class:	IP20
Operating Temperature:	-5°C .. +45 °C
KNX-load:	20 .. 32VDC 150 mW
Power supply:	9 .. 30VDC 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.	Product gr.
KNX-FM	KNX-GW-DMX	KNX-GW-RS232-RS485		
KNX-FM		Document: 4100_xx_KNX-FM.pdf		
	KNX-FM	The KNX-FM is a free programmable logic module with an KNX-Interface. It is housed in a 107mm wide DIN Rail mounted housing. Programming is done by the Program ArcSuite. Free download at www.arcus-eds.com	40020186	1
KNX-GW-DMX		Document: 4200_xx_KNX-GW-DMX.pdf		
	KNX-GW-DMX	The KNX-GW-DMX is a 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. Free download at www.arcus-eds.com	40120186	1
KNX-GW-RS232-RS485		Document: 4300_xx_KNX-GW-RS232-RS485.pdf		
	KNX-GW-RS232-RS485	The KNX-GW-RS232-RS485 is a gateway between the KNX-Bus and the serial lines RS232 and 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. Parametrization is done by the dedicated Program RS232-Configurator. Free download at www.arcus-eds.com	40220186	1

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 IP65 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

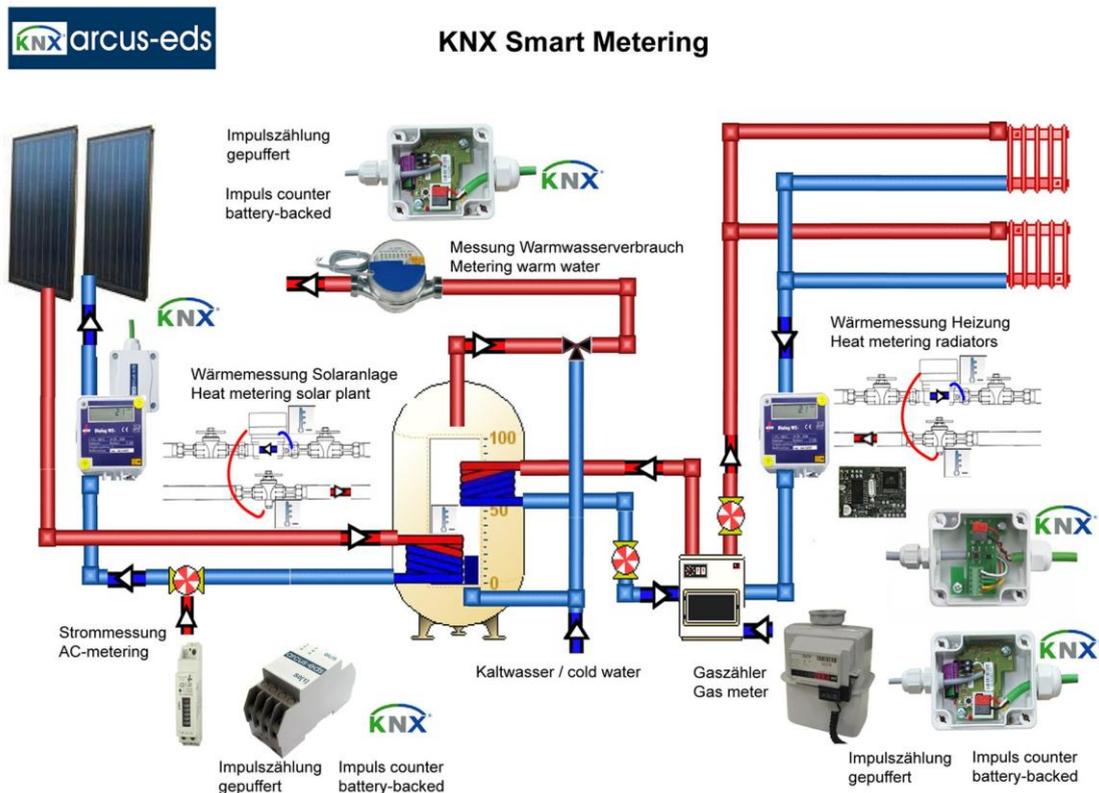
The in home water meter is a package of the calibrated water meter „WZ-M“ from NZR and the impuls counting unit SK01-IMPZ1 from Arcus-EDS GmbH. The meter is approved by the PTB.

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 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.



KNX-IMPZ1

Impuls counting module KNX-IMPZ1

Use case: Integration of consumption meters with impuls 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 impuls outputs with a potential free contact.

KNX readable data:

Serial number	Last reference value	Next reference date
Accumulated consumption	value	Consumption Reset
Current flow rate/consumption rate	Consumption last reset date	Consumption last reset time
Current time		
Current date		
Last reference date		

KNX-IMPZ1	Article	Article description	Article no.	Product gr.
EIB/KNX		Document: 5100_xx_IMPZ1.pdf		
	SK01-IMPZ1	1 Channel S0 counter module with KNX interface SK01 plastic housing 72 x 64 x 40 mm IP65 Mounted with 2 screws onto the wall.	60201101	1
	REG-IMPZ1	1 Channel S0 counter module with KNX interface DIN Rail mounted housing 2 units width (35 mm) IP20	60201102	1

KNX-IMPZ2

Impuls counting module KNX-IMPZ2

Use case: Integration of consumption meters with impuls 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 impuls outputs with a potential free contact.

The two counting values can be two different meters or one meter with 2 tariffs. Switching the tariffs is done through the second input or over KNX.

KNX readable data:

Serial number	Last reference value	Next reference date
Accumulated consumption	value Consumption	Reset
Current flow rate/consumption rate	Consumption last reset date	Consumption last reset time
Current time		
Current date		
Last reference date		

KNX-IMPZ2	Article	Article description	Article no.	Product gr.
EIB/KNX		Document: 5200_xx_IMPZ2.pdf		
	SK01-IMPZ2	2 Channel S0 counter module with KNX interface SK01 plastic housing 72 x 64 x 40 mm IP65 Mounted with 2 screws onto the wall.	60201201	1
	REG-IMPZ2	2 Channel S0 counter module with KNX interface DIN Rail mounted housing 2 units width (35 mm) IP20	60201202	1

KNX-IMPZ-WZ-M

In home water meters Modularis WZ-M

EIB/KNX

Document: 5300_xx_WZ-M.pdf



KNX readable data:

- 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

Connection box: SK01 plastic housing
72 x 64 x 40 mm
IP65

Mounted with 2 screws onto the wall.

WZ-M Technical data	Remarks	Article no.	Product gr.
Nominal Flow Rate 1,5 m ³ /h Nominal Diameter 15 mm Maximum Flow Rate 3 m ³ /h Installation Length 80 mm	WZK-M cold 30°C	60201-75124015	10
	WZW-M hot 90°C	60201-75124515	10
Nominal Flow Rate 1,5 m ³ /h Nominal Diameter 15 mm Maximum Flow Rate 3 m ³ /h Installation Length 110 mm	WZK-M cold 30°C	60201-75124115	10
	WZW-M hot 90°C	60201-75124615	10
Nominal Flow Rate 2,5 m ³ /h Nominal Diameter 20 mm Maximum Flow Rate 5 m ³ /h Installation Length 130 mm	WZK-M cold 30°C	60201-75124025	10
	WZW-M hot 90°C	60201-75124525	10

	Other water meters, technical data and companion dimensions are available at NZR. www.nzr.de . The NZR-article no. equals the second part of our article no. Prices on request.
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	All meters of the series WZ-M are equipped with an internal Impuls module, they are PTB approved and calibrated.
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KNX-WMZ-WZ-HY

Heat quantity meter WZ-HY

EIB/KNX

Document: 5400_xx_WMZ.pdf



KNX readable data

- Energy value
- Volume
- Supply and return temperature
- Temperature difference
- Actual flow rate
- Heating power
- Last reference value
- Serial number

Temperature range:
0 .. 120 °C

Connection box:
SK01 plastic housing
72 x 64 x 40 mm
IP65

Mounted with 2 screws onto the wall.

WZ-HY Technical data		Temperature probe	Article no.	Product gr.
Nominal Flow Rate Nominal Diameter Maximum Flow Rate Installation Length	0,6 m³/h 15 mm 1,2 m ³ /h 110 mm	dry probe	60101-85373106	10
		wet probe	60101-85473106	10
Nominal Flow Rate Nominal Diameter Maximum Flow Rate Installation Length	1,5 m³/h 15 mm 3 m ³ /h 110 mm	dry probe	60101-85373115	10
		wet probe	60101-85473115	10
Nominal Flow Rate Nominal Diameter Maximum Flow Rate Installation Length	2,5 m³/h 20 mm 5 m ³ /h 130 mm	dry probe	60101-85373125	10
		wet probe	60101-85473125	10

	<p>Other heat meters, technical data and companion dimensions as well as informations about mounting kits and adapters are available at NZR. www.nzr.de.</p> <p>The NZR-article no. equals the second part of our article no.</p> <p>Prices on request.</p>
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	<p>All meters of the series WZ-HY are equipped with an internal KNX coupling unit, they are PTB approved, sealed and calibrated.</p>
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Components for the T sensor family and the TTFK auxiliary inputs

Article	Article description	Article no.	Product gr.
In-wall mounted probes PT1000			
	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 55mm. Indoor use only IP20	90104401 2
	SK03-PT1000 anthrazit	Temperature probe PT1000 With screw-in clamps Mounted on in-wall-in-wall pattress (60/68 mm) Compatible to switching systems (e.g. Gira, Merten) in standard 55mm. Indoor use only IP20	90104402 2
Feed/surface mounted probe PT1000 IP54			
	OFTF PT1000 PVC	Feed Temperature/Surface Probe Operating range: -30 .. +105 °C Cable: 1,5 m PVC	90100001 2
Sleeve probe PT1000			
	HTF PT1000 PVC	Operating range: -35 .. +105 °C Cable: 1,5 m PVC IP65	90100002 2
	HTF PT1000 Silicone	Operating range: -35 .. +180 °C Cable: 1,5 m Silicone IP65	90100003 2
	HTF PT1000 Teflon IP68	Operating range: -50 .. +250 °C Cable: 1,5 m Teflon IP68	90100055 2

Components for the T sensor family and the TTFK auxiliary inputs

Article	Article description	Article no.	Product gr.	
Pipe Feed Probe PT1000 IP65				
	ALTF1 PT1000 PVC	Feed Temperature/ Pipe Feed Probe Operating range: -35 .. +105 °C Cable: 1,5 m PVC	90100004	2
	ALTF1 PT1000 Silicone	Feed Temperature/ Pipe Feed Probe Operating range: -35 .. +105 °C Cable: 1,5 m Silicone	90100005	2
	ALTF2 PT1000	Feed Temperature/ Pipe Feed Probe in plastic housing with contacting sensor (PT1000) on the rear side of the terminal box Operating range: -30 .. +110 °C	90100006	2
Outdoor / damp room temperature probe PT1000 IP65				
	ATF2 PT1000	Outdoor / damp room temperature probe in plastic housing (PT1000) Operating range: -50 .. +90 °C	90100007	2
Screw-In Temperature Probe PT1000 IP65				
	ESTF PT1000-50 PVC	G1/2" 50 mm V4A Operating range: -35 .. +105 °C Cable: 1,5 m PVC	90100008	2
	ESTF PT1000-100 PVC	G1/2" 100 mm V4A Operating range: -35 .. +105 °C Cable: 1,5 m PVC	90100009	2
	ESTF PT1000-50 Silicone	G1/2" 50 mm V4A Operating range: -35 .. +180 °C Cable: 1,5 m Silicone	90100010	2
	ESTF PT1000-100 Silicone	G1/2" 100 mm V4A Operating range: -35 .. +180 °C Cable: 1,5 m Silicone	90100011	2

Components for the T sensor family and the TTFK auxiliary inputs

Article	Article description	Article no.	Product gr.	
Ceiling mounted temperature probe PT1000				
	DTF PT1000 Ceiling mounted temperature probe Operating range: -20 .. +90 °C Cable: 135 mm PVC	90100012	2	
Pendulum room probe for temperature PT1000 IP65				
	RPTF1 PT1000 Pendulum room probe for temperature PT1000. Probe dimension: 100mm, M12/1,5mm Operating range: -30 .. +75 °C Cable: 1,5 m PVC	90100050	2	
Pendulum room probe for temperature PT1000 IP65				
	RPTF2 PT1000 Pendulum room probe for temperature PT1000. in black plastic sphere (Ø 50 mm) for the acquisition of the temperature caused by radiant heat. Operating range: -30 .. +80 °C Cable: 1,5 m PVC	90100051	2	
Cable				
The necessary probe cable lengths are manufactured on demand				
	AN-PVC- -T2x025	PVC LiYY 2 x 0,25 mm ² Product sold by meter	90200220	2
	AN-Silicone -T2x025	Silicone SiHF 2 x 0,25 mm ² Product sold by meter	90200221	2
	AN-Teflon -T2x100	Teflon Li-6Y6Y-OZ 2 x 1 mm ² Product sold by meter	90200223	2

Components for the TFK / TTFK sensor family

Article	Article description	Article no.	Product gr.
Pendulum room probe for temperature and humidity IP65			
	RFFF (Sensirion)	Pendulum room temperature/humidity probe with plastic sinter filter Storage Temperature: -25...+80 °C Operating Temperature: -20...+55 °C Operating Humidity: 10 .. 90% r.H. Cable material: PVC Probe length: 100mm Length: 2m	90100054 2
Pendulum room probe for temperature and humidity (condensation proof) IP65			
	RFFF-MMF (Sensirion)	Pendulum room humidity/temperature probe with metal membrane filter (condensation proof) Storage Temperature: -25...+80 °C Operating Temperature: -20...+55 °C Operating Humidity: 10 .. 100% r.H. Cable material: PVC Probe length: 100mm Length: 2m	90100056 2

Components for the KNX measuring system S8

Article	Article description	Article no.	Product gr.	
Water quality probe pH, ORP for WAQ				
	WAQ Probe set single-rod measuring cells	Standard probes for PH and ORP to use with SK08-WAQ	91110020	9
Global radiation probe for GLBS				
	GLBS -DAV6450	Global radiation sensor element for the SK08- GLBS	91110021	9
	Mountkit-GLBS	Mounting kit for GLBS Sensor	91110022	9
Soil moisture probe Watermark® WMT				
	WMT	Watermark®-soil moisture probe with temperature sensor element with underground cable (length 5 m)	91100000	2
		Underground cable for WMT (each additional meter)	90200500	2

Components for Touch_IT C3

Article	Article description	Article no.	Product gr.
Temperature sensor			
	1 Wire DTF	Ceiling-Mounted Temperature Probe Cable length: 2,5 m Accuracy: $\pm 0,5 \text{ }^{\circ}\text{C}$ Temperature range: $-55 \dots +125 \text{ }^{\circ}\text{C}$	90100013 2
	1 Wire HTF	Sleeve Temperature Probe Cable length: Silicone 3 m Accuracy: $\pm 0,5 \text{ }^{\circ}\text{C}$ Temperature range: $-55 \dots +125 \text{ }^{\circ}\text{C}$	90100014 2