				VISU	A
KNX Visualization/Controlling					
Touch_IT C3	3,5" Display / Touchscreen / standard box in wall		IP20		1
MicroVis II logic+	2" Display with rotary push button		IP20		2
MicroVis C2	2" Display with rotary push button and 2 buttons		IP20		3
KNX Sensor Systems Temperature (T)				**T**	**B**
Temperature Sensor	HVAC Applications	SK01	IP65		1
Temperature Sensor	Room Temperature Control	SK02 / 03	IP20		7
8 x Temperature Sensor	HVAC Applications	SK08	IP65		
KNX Sensor Systems Temperature/Humidity/Climate				**TFK**	**C**
Enthalpy Sensor	HVAC Applications	SK01	IP65		1
Enthalpy Sensor	Room Temperature Control	SK02 / 03	IP20		3
KNX Sensor Systems Temperature/Temperature/Humidity/Climate				**TTFK**	**D**
Enthalpy Sensor with add. Temperature	HVAC Applications	SK01	IP65		1
Enthalpy Sensor with add. Temperature	Room Climate Control	SK03	IP20		3
KNX Sensor Systems Physical and Chemical Measurement Technology				**S8**	**E**
8 x Temperature Sensor	HVAC Applications	SK08	IP65	**T8**	1
Sensor Water Quality	PH Value and Redox Potentiall	SK08	IP65	**WAQ**	2
Sensor CO2+Climate Measurement	CO2 & Temperature / Humidity	AM2 / TL2	IP20	**CO2-TF**	
Global Radiation Sensor	Measuring Global Radiation	SK08	IP65	**GLBS**	3
Sensor Soil Humidity/Temperature	Control Soil Humidity/Temperature	SK08	IP65	**BFT**	
Pressure Transmitters	Measuring and Control Pressure	SK08	IP65	**P**	
KNX Function Module / Gateways				**GW**	**F**
KNX-FM	Function Module		REG	**FM**	1
KNX-GW-DMX	DMX 512 Bus		REG	**DMX**	
KNX-GW-RS232	RS232 and RS485		REG	**RS232**	2
KNX Smart Metering					**G**
KNX Heat Metering				**WMZ**	
Dialog WZ-CD	Heat Meter	SK01	IP65		2
KNX Metering Consumtion Impuls Counter				**IMPZ**	
KNX-IMPZ	1 - 2 Channel Impuls Counter	SK01/REG	IP65 / IP20		3
WZ-M	Water Meter Modularis	SK01	IP65		4
KNX-Special Application					**P**
Accessories / Replacement Parts					**Z**

3,5" TFT Display mit Touchscreen

Hardware:
- 3,5" - TFT-Color Display
  with 320xRGBx240 (256K Color)
  and Touchscreen
- 200MHz 32-Bit ARM9 Prozessor
- Linux OS
- Adjustable LED-Backlight
- Alarm signal
- ETS-programmable
- 5 display pages, each with up to
  8 control elements
- For each element up to 4 KNX objects used
- Wide range of Contro lelements
  Pushbuttons / switches (opt. with status
  report)
  Slidecontroller, +/- push button for value
  settings (Set points etc.)
 -Elements for dimming with switching function
  shutter/blinds controller, clock timer,
  timer etc.
- additional display page for alarm objects
- Each page and each control element
  can be protected by password
- Various user interfaces, layouts and
  standby options selectable on the device
- Different font sizes adjustable
- Customizing applicable

EIB/KNX-elements:
- up to 196 objects
- System objects:
   time / date
   Brightness
   Temperature
   Alarm

Applications:
- Switching and dimming of lighting
- Display of the switching status in building
- Control of various devices in the KNX-Bus
- Handling of shutters/blinds
- Alarm functions acoustic and optical
- Display of motion detector alarms as plain text
- Display and setting of heating control
- Control of multi room audio-systems
- Display of Temperatures
- Weekly time clock

 Connection:
- Auxiliary supply DC 9-32 V, ca. 1,5 VA,

Article	Article	Article Description	Article Nr.	List Price
Touch_IT				Product Gr. 1
Indoor, in-wall, incl. mounting elements, KNX conn.				
	Touch_IT C3 white	3,5" display in a designer plastic housing for visualization and controlling via KNX-Bus. It will be mounted with a support ring in a standard box (68mm) in wall	22311101	369,00 €
	Touch_IT C3 anthracite	Ambient Temperature: Storage -5...+60 °C, Operating -5...+55 °C	22311102	369,00 €
	Touch_IT C3 AM	3,5" display in metal housing for visualization and controlling via KNX-Bus. It will be mounted with a support ring , magnets and a safety screw in a standard box (68mm) in wall.	22310200	396,00 €

2" LCD Color Display - Visualization and Controlling via KNX Bus

Hardware:
- LCD Color Display: 160x128 Pixel,
  BxH 37 x 30mm, 48mm   Diagonal
- 50 MHz Arm7-Processor (256kByte internal
  memory)
- 128 kByte memory size for e.g.
   24 JPG pictures for one project
- Piezo-signal for alarm messages
- Rotary control button with detent for input
  and navigation
- Adjustable LED background lighting

Software ArcSuite:
- Java based PC Software for projection
  of MicroVis
  Download www.Arcus-EDS.de
- programmable via USB

Graphics and Software
- Free design of page contents
- 32 elements per page, position and size
  freely definable
- unlimited pages, dependent only on the
  internal memory space (31kB)
- Various character fonts, font sizes
- Integration of JPG graphics
- Switch key/push button, rotary dimmer,
  display,values and text displayed in list
- timer, pin code, scene generator, etc.
- Additional Forth programming language with
  substantial mathematical, logical and string
  components for designing individual
  elements.

EIB/KNX Elements:
- Up to 128 group addresses through polling with Start
- 17 EIS types incl. 14 byte ASCI character string
- Listening group addresses
- Filtered acceptance of group addresses from ETS
- Direct dimming function with rotary control button, dimming through stop
telegram
- Buttons (1Bit) as switch or key elements with stop telegram
- System time/system date
- Brightness, contrast and background lighting adjustable by EIB
- All EIS types as acoustic or optic alarm
- Acoustic alarm freely programmable

Areas of Application
- Switching and dimming of lighting
- Display of switching status in house
- Recording and retrieving of light sequences
- On and Off switch for various devices
- Operating blinds
- Alarm functions, acoustic and optical
- Motion detector alarm with text indicator
- Display and set up of heating control
- Volume adjustment in multiroom plants
- Display of outdoor and indoor temperature
- Weekly timer
- Display and retrieval of system-resident JPG pictures
- Protection of pages with pin code
- Logical and/or functions

Affixing:
- Connection and supply: directly on EIB/KNX Bus, DC 24 V,
  ca. 15mA, no auxiliary voltage necessary

Article	Article	Article Description	Article Nr.	List Price
Combination: MicroVis II logic and SK03MV-TF (Temperature-Humidity)				Product Gr. 1
Indoor, in-wall, 55mm, incl. Support ring		Relevant document: 030_PBM		
	DS01-C white	The LCD Display MicroVis II logic+ is compatible with most series of switch programs (e.g. Gira, Jung, Merten in standard 55) and is mounted onto a standard box (68mm). The box is provided with two springs and a supporting frame for flush-mounting. The box is fitted to the suitable design frame and clicked into the box. Environment Temperature: Storage -5...+60 °C Operating -5...+55 °C	20011101	312,00 €
	DS01-C white with V2A blind		20011131	318,67 €
	DS01-C anthracite		20011102	312,00 €
	DS01-C anthracite with V2A blind		20011132	318,67 €

Article	Article	Article Description	Article Nr.	List Price
Combination: MicroVis II logic and SK03MV-TF (Temperature-Humidity)				Product Gr. 1
Indoor, in-wall, 55mm, incl. Support ring		Relevant document: 030_PBM		
	DS01-C white + SK03MV-TF white	The SK03MV-TF is a temperature-humidity sensor, connected to the MicroVis II logic+ by a ribbon cable. Start-up is effected in MicroVis II logic+ using ArcSuite. Temperature and humidity are recorded and displayed as EIB object to the bus by MicroVis II logic+. For the requested switch program the SK03MV-TF-1 and Micro Vis II logic+ can be integrated in a double or multiple-frame combination. (also individually available, see accessories) Ambient Temperature: Storage -5...+60 °C, Operating -5...+55 °C	20010101	377,46 €
	DS01-C white with V2A blind + SK03MV-TF white		20010131	383,80 €
	DS01-C anthracite + SK03MV-TF anthracite		20010102	377,46 €
	DS01-C anthracite with V2A blind + SK03MV-TF anthracite		20010132	383,80 €

Article	Article	Article Description	Article Nr.	List Price
MicroVis C2				Product Gr. 1
Indoor, in-wall, incl. magnet clamps		Relevant document: 040_PBM,		
		Hardware and software are identical to MicroVis II logic. A rotary control button controls the menus and allows switching and dimming, as well as direct adjustment of analogue values such as temperature, brightness or volume. The two additional programmable push buttons can be used in addition to the menu for switching or to retrieve complete sequences. Optional accessories for MicroVis C2 include a temperature/humidity sensor (TF). The C2 is mounted with a magnet to a standard double outlet (68mm). Mounting devices and standard double outlet are included. The interchangeable design foil under the acrylic surface can be customized with any design and color according to the customer's needs (see accessories). Mounting plate with integrated display, design foil and acrylic surface have a total height of only 6mm. Environment Temperature: Storage -5...+60 °C, Operating -5...+55 °C		
	MicroVis C2	MicroVis C2 without integrated temperature/humidity sensor	22210100	325,00 €
	MicroVis C2-TF	MicroVis C2 (as above) with integrated temperature/humidity sensor (Sensirion)	22211100	350,00 €

KNX Sensors Temperature   Sensor: PT1000

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

T

Product Data Base
arc_TFK.vd2

Product
Sensor
Temperature

Application Description

100_APB_SK0x-Txxx

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

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 via KNX Bus: temperature
- Minimum/Maximum temperature saved
- Adjustable frost protection alarm
- Adjustment of all standards and limits
- Actual value adjustment for temperature

SK01-T	Article	Article Description	Article Nr.	List Price
SK01 without Temperature Probe				Product Gr. 1
EIB/KNX, on-wall, outdoor, damp room, IP65		Relevant documents: 100_APB ; 112_PBM		
	SK01-T	KNX Sensor Temperature for indoor/outdoor and damp rooms (IP65). Without temperature probe	30101000	143,00 €
SK01 With Surface-Contacting Probe				Product Gr. 1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 101_PBM ; 101_AST		
	SK01-T-OFTF	KNX Sensor Temperature for indoor/outdoor and damp rooms (IP65) with temperature feed/surface probe, square, for flat surfaces, aluminium 8x8x40. The aluminium casing of the PT1000 temperature probe is attached to the surface with glue. Measured temperature range: -30...+105°C Connecting cable: 1.5m PVC Mounted onto the wall with two screws.	30101001	161,90 €

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SK01-T	Article	Article Description	Article Nr.	List Price
SK01 with Sleeve Sensor				Product Gr. 1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 102_PBM ; 102_AST		
	SK01-T-HTF PVC 1.5m	KNX Sensor Temperature with sleeve sensor (PT1000) for temperature detection in liquid and gaseous media using an immersion sleeve. Sleeve sensor, rolled stamped (protected from humidity) Round probe, V4A Ø 6,0x50mm Connecting cable: 1.5m PVC Measured temperature range: -35…+105°C	30101002	154,75 €
	SK01-T-HTF Silicone 1.5m	KNX Sensor temperature with sleeve sensor Connecting cable: 1.5m Silicone Measured temperature range: -50…+180°C	30101003	159,10 €
	SK01-T-HTF Teflon 1.5m	KNX Sensor Temperature with sleeve sensor, IP65 Connecting cable: 1.5m Teflon Measured temperature range: -50…+250°C	30101055	171,90 €

SK01 with Contacting/Tube Contacting Probe				Product Gr. 1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 104_PBM ; 104_AST		
	SK01-T-ALTF1 PVC 1.5m	KNX Sensor Temperature with axial sensor 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=13-92mm (1⁄4 - 3"), 300mm Connecting cable: 1.5m PVC Measured temperature range: -35…+105°C	30101004	157,00 €
	SK01-T-ALTF1 silicone 1.5m	KNX Sensor Temperature with contacting/tube contacting probe, Connecting cable: 1.5m Silicone Measured temperature range: -35…+180°C	30101005	158,10 €

SK01 with Tube Contacting Probe				Product Gr. 1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents:100_APB ; 106_PBM ; 106_AST		
	SK01-T-ALTF2	KNX Sensor 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=13-92mm (1⁄4 - 3"), 300mm Measured temperature range: -30…+110°C	30101006	160,10 €

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SK01-T	Article	Article Description	Article Nr.	List Price
SK01 with External Probe				Product Gr. 1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 107_PBM ; 107_AST		
	SK01-T-ATF2	KNX Sensor Temperature for indoor/outdoor and damp rooms (IP65). The PT1000 sensor is enclosed in a V4A stainless steel sheath tube (30mm, Ø 6mm). Measured temperature range: -50...+90°C The box is mounted to the wall with two screws.	30101007	170,80 €

SK01 with Screw-in/Immersion Probe-Cable Connection				Product Gr. 1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 108_PBM ; 108_AST		
	SK01-T-ESTF 50mm PVC 1.5m	KNX Sensor Temperature for indoor/outdoor and damp rooms (IP65). The PT1000 sensor is in a brass sheath tube (Ø8mm 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. Probe: G1/2", 50mm, V4A, Cable: PVC 1.5m Measured temperature range: -35…+105°C	30101008	171,50 €
	SK01-T-ESTF 100mm PVC 1.5m	Probe: G1/2", 100mm, V4A, Cable: PVC 1.5m Measured temperature range: -35…+105°C	30101009	172,50 €
	SK01-T-ESTF 50mm silicone 1.5m	Probe: G1/2", 50mm, V4A, Cable: silicone 1.5m Measured temperature range: -50…+180°C	30101010	172,50 €
	SK01-T-ESTF 100mm silicone 1.5m	Probe: G1/2", 100mm, V4A, Cable: silicone 1.5m Measured temperature range: -50…+180°C	30101011	173,60 €

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SK01-T	Article	Article Description	Article Nr.	List Price
SK01 with Screw-in/Immersion Probe, Brass Immersion Sleeve				Product Gr. 1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 113_PBM ; 113_AST		
	SK01-T-ETF1 50mm brass	KNX Sensor Temperature for indoor/outdoor and damp rooms (IP65). The PT1000 sensor is in a brass sheath tube (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. Probe: G1/2", 50mm, brass, Measured temperature range: -30...+150°C	30101013	176,75 €
	SK01-T-ETF1 100mm brass	Probe: G1/2", 100mm, brass, Measured temperature range: -30...+150°C	30101014	177,95 €
	SK01-T-ETF1 150mm brass	Probe: G1/2", 150mm, brass, Measured temperature range: -30...+150°C	30101015	178,60 €
	SK01-T-ETF1 200mm brass	Probe: G1/2", 200mm, brass, Measured temperature range: -30...+150°C	30101016	180,20 €
	SK01-T-ETF1 250mm brass	Probe: G1/2", 250mm, brass, Measured temperature range: -30...+150°C	30101017	181,15 €
	SK01-T-ETF1 300mm brass	Probe: G1/2", 300mm, brass, Measured temperature range: -30...+150°C	30101018	183,95 €
	SK01-T-ETF1 400mm brass	Probe: G1/2", 400mm, brass, Measured temperature range: -30...+150°C	30101019	185,15 €
SK01 with Screw-in Immersion Probe, Immersion Sleeve V4A				Product Gr. 1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 120_PBM ; 120_AST		
	SK01-T-ETF2 50mm V4A	KNX Sensor Temperature for indoor/outdoor and damp rooms (IP65). The PT1000 sensor is in a V4A steel sheath tube (Ø 6mm), which is inside a V4A immersion sleeve (Ø 8mm)(max. pressure 40 bar). Used for detecting liquid or gaseous media in heating plants, circulation and climate technology. Probe: G1/2", 50mm, V4A, Measured temperature range: -30...+150°C	30101020	181,90 €
	SK01-T-ETF2 100mm V4A	Probe: G1/2", 100mm, V4A, Measured temperature range: -30...+150°C	30101021	184,73 €
	SK01-T-ETF2 150mm V4A	Probe: G1/2", 150mm, V4A, Measured temperature range: -30...+150°C	30101022	187,10 €
	SK01-T-ETF2 200mm V4A	Probe: G1/2", 200mm, V4A, Measured temperature range: -30...+150°C	30101023	189,20 €
	SK01-T-ETF2 250mm V4A	Probe: G1/2", 250mm, V4A, Measured temperature range: -30...+150°C	30101024	190,50 €
	SK01-T-ETF2 300mm V4A	Probe: G1/2", 300mm, V4A, Measured temperature range: -30...+150°C	30101025	196,10 €
	SK01-T-ETF2 400mm V4A	Probe: G1/2", 400mm, V4A, Measured temperature range: -30...+150°C	30101026	197,90 €

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SK01-T	Article	Article Description	Article Nr.	List Price
SK01 with Screw-in/Immersion Probe				Product Gr. 1
Immersion Sleeve with Extended Shaft V4A				
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 127_PBM ; 127_AST		
	SK01-T-ETF3 50mm	KNX Sensor Temperature for indoor/outdoor and damp rooms (IP65). The PT1000 sensor is in a V4A steel sheath tube (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). Probe: G1/2", 50mm, V4A, Measured temperature range: -30…+150 °C	30101027	199,00 €
	SK01-T-ETF3 100mm	Probe: G1/2", 100mm, V4A, Measured temperature range: -30...+150°C	30101028	199,60 €
	SK01-T-ETF3 150mm	Probe: G1/2", 150mm, V4A, Measured temperature range: -30...+150°C	30101029	200,85 €
	SK01-T-ETF3 200mm	Probe: G1/2", 200mm, V4A, Measured temperature range: -30...+150°C	30101030	202,40 €
	SK01-T-ETF3 250mm	Probe: G1/2", 250mm, V4A, Measured temperature range: -30...+150°C	30101031	203,50 €
	SK01-T-ETF3 300mm	Probe: G1/2", 300mm, V4A, Measured temperature range: -30...+150°C	30101032	207,10 €
	SK01-T-ETF3 400mm	Probe: G1/2", 400mm, V4A, Measured temperature range: -30...+150°C	30101033	209,40 €

SK01 with Screw-in/Immersion Probe with Extended Shaft with Neck Tube for Quick Responsivity				Product Gr. 1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 134_PBM ; 134_AST		
	SK01-T-ETF7 100mm	KNX Sensor Temperature for indoor/outdoor and damp rooms (IP65). 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 Protective material: stainless steel 1.4571 Pipe measurements: Ø=6mm, plain tapered Ø=4mm Probe: G1/2", 100mm, V4A, Measured temperature range: -35…+150 °C	30101034	265,30 €
	SK01-T-ETF7 150mm	Probe: G1/2", 150mm, V4A, Measured temperature range: -35…+150 °C	30101035	267,05 €
	SK01-T-ETF7 250mm	Probe: G1/2", 250mm, V4A, Measured temperature range: -35…+150 °C	30101036	269,65 €

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SK01-T	Article	Article Description	Article Nr.	List Price
SK01 with Duct/Air Duct Probe incl. Mounting Flange V4A				Product Gr. 1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 137_PBM ; 137_AST		
	SK01-T-KTF1 50mm	KNX Sensor Temperature for indoor/outdoor and damp rooms (IP65). The PT1000 sensor is in a V4A 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. Probe: Length 50mm V4A stainless steel Measured temperature range: -30...+150°C	30101037	174,10 €
	SK01-T-KTF1 100mm	Probe: Length 100mm V4A stainless steel Measured temperature range: -30...+150°C	30101038	174,50 €
	SK01-T-KTF1 150mm	Probe: Length 150mm V4A stainless steel Measured temperature range: -30...+150°C	30101039	175,00 €
	SK01-T-KTF1 200mm	Probe: Length 200mm V4A stainless steel Measured temperature range: -30...+150°C	30101040	175,62 €
	SK01-T-KTF1 250mm	Probe: Length 250mm V4A stainless steel Measured temperature range: -30...+150°C	30101041	178,10 €
	SK01-T-KTF1 300mm	Probe: Length 300mm V4A stainless steel Measured temperature range: -30...+150°C	30101042	179,80 €
	SK01-T-KTF1 400mm	Probe: Length 400mm V4A stainless steel Measured temperature range: -30...+150°C	30101043	182,10 €
SK01 with Pendulum Room Probe				Product Gr. 1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 150_PBM ; 150_AST		
	SK01-T-RPTF1	KNX Sensor Temperature for indoor/outdoor and damp rooms (IP65). Temperature sensor PT1000 is in sheath tube. Installation in rooms with a high ceiling with a suspended sensor. Probe: 100mm M12/1.5mm stainless steel 1.4571 Cable: PVC 1.5m Measured temperature range: -30...+75 °C	30101050	191,50 €
SK01 with Pendulum Room Probe (globe thermometer)				
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 150_PBM ; 150_AST		
	SK01-T-RPTF2	KNX Sensor Temperature for indoor/outdoor and damp rooms (IP65). Temperature sensor PT1000 is in a black plastic ball d=50mm. Dark radiation probe detects radiation and radiation warmth. Installation in rooms with high ceilings with suspende sensor. Probe: black plastic ball d=50mm Cable: PVC 1.5m Measured temperature range: -30...+80 °C	30101051	189,50 €

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SK02-T	Article	Article Description	Article Nr.	List Price
SK02		Temperature Probe Integrated in Box		Product Gr. 1
EIB/KNX, on-wall, Indoor, IP20		Relevant documents: 100_APB ; 170_PBM ; 170_AST		
	SK02-T	KNX Sensor Temperature inside box Installation on-wall mounting in dry areas (IP20). Use: detecting and controlling room temperature in homes, hotels, offices, exhibition areas and schools. Mounted using 2 screws. Operating temperature: -25...+55°C	30102201	156,00 €

SK03-T	Article	Article Description	Article Nr.	List Price
SK03		Temperature Probe Integrated in Box		Product Gr. 1
EIB/KNX, in-wall, indoor, IP20		Relevant documents: 100_APB ; 180_PBM ; 180_AST		
	SK03-T white	KNX Sensor Temperature in box for in-wall mounting in dry interiors (IP20). 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 68 mm in-wall socket. Compatible with switching systems (e.g. Gira, Merten in standard 55mm). Operating temperature: -25...+55°C	30103201	153,00 €
	SK03-T anthracite		30103202	153,00 €

SK08-T8	Article	Article Description	Article Nr.	List Price
SK08-T8		Multiple-PT1000		Product Gr. 1
EIB/KNX Indoor/Outdoor, IP65		Relevant documents 802_APB; 803_PBM		
	SK08-T8	KNX Controller 8 Channel Temperature for measuring and controlling up to 8 temperatures both outdoors and (damp) indoors (IP 65). Temperatures are detected with the external PT1000 temperature sensor. Variable temperature sensors can be used. **More informationen see rubric E: Physical and Chemical Measurement Technology**	30801000	298,00 €

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KNX Sensors Temperature/Humidity/Climate

Sensor: Sensirion SHT71 / SHT11

TFK

Product Database
arc_TFK.vd2

Product
**Sensor
Temperature/
Humidity/Climate**

Application Description:
100_APB_SK0x-Txxx

Sensors with integrated KNX bus coupler for measuring and regulating temperature and humidity. Auxiliary voltage is not necessary.

ETS Application:
- Measured values of temperature and relative humidity
- 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 displayed: absolute humidity, dew point temperature, enthalpy
- Actual value adjustment for temperature and relative humidity- Measured values of temperature and relative humidity

SK01-TFK	Article	Article Description	Article Nr.	List Price
SK01 with External Probe				Product Gr.1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 253_PBM ; 253_AST		
	SK01-TFK-AFF	Temperature/Humidity/Climate Sensor for indoor/outdoor and damp locations(IP65). The probe is protected from condensation and dust by a poroplast protective coating. Application: building automation, refrigeration, air-conditioning and ventilation systems, clean rooms, greenhouses, etc.The boxes are mounted onto the wall with two screws. Probe length: 45mm Operating range temperature: -20...+80°C Operating range humidity: 10...90% r.H.	30301053	222,00 €
SK01 with Pendulum Room Probe				Product Gr.1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 254_PBM ; 254_AST		
	SK01-TFK-RPFF	Temperature/Humidity/Climate sensor for indoor/outdoor and damp locations (IP65). The probe is protected from condensation and dust by a poroplast protective coating and is used as a pendulum room sensor. Application: building automation, refrigeration, air-conditioning and ventilation technology, in greenhouses, also in halls with high ceilings, etc. The boxes are mounted with two screws. Installation in rooms with high ceilings with the sensor suspended from the ceiling. Probe: 100mm, cable length: 2m Temperature range: -20...+80°C Humidity range: 0...100% r.H.	30301054	264,00 €

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SK01-TFK	Article	Article Description	Article Nr.	List Price
SK01 with Pendulum Room Probe				Product Gr.1
EIB/KNX, on-wall, outdoor/ damp room, IP65		Relevant documents: 100_APB ; 254_PBM ; 254_AST		
	SK01-TFK-MMF	Temperature/Humidity/Climate Sensor for indoor/outdoor and damp locations (IP65). The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor. Application: building automation, refrigeration, air-conditioning and clean room technology, greenhouses, halls with high ceilings. The boxes are mounted with two screws. Installation in rooms with high ceilings with the sensor suspended from the ceiling. Probe: 100mm, Cable length: 2m Temperature range: -20...+80°C Humidity range: 0...100% r.H.	30301056	297,00 €
SK01 with Duct Probe				Product Gr.1
EIB/KNX, on wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 257_PBM ; 257_AST		
	SK01-TFK-KFF	Temperature/Humidity/Climate Sensor for duct installation (IP65). The probe is protected from condensation and 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. Probe length: 230mm Operating temperature range: -20...+80°C Operating humidity range: 10...90% r.H.	30301057	248,00 €

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SK02-TFK	Article	Article Description	Article Nr.	List Price
SK02		Sensor Integrated in Box		Product Gr.1
EIB/KNX, on-wall, indoor IP20		Relevant documents: 100_APB ; 270_PBM ; 270_AST		
	SK02-TFK	KNX Sensor integrated in box for on-wall mounting in dry interiors, IP20. Application: detecting/controlling room temperature in homes, hotels, offices, exhibition areas and schools. Mounted with two screws. Operating temperature: -25...+55°C	30302201	196,00 €

SK03-TFK				
SK03		Sensor Integrated in Box		Product Gr.1
EIB/KNX, in-wall, indoor IP20		Relevant documents: 100_APB ; 280_PBM ; 280_AST		
	SK03-TFK White	KNX Sensor integrated in box for in-wall mounting in dry interiors, IP20. Application: Detecting and controlling room climate in homes, hotels, offices, exhibition areas and schools.	30303201	193,00 €
	SK03-TFK Anthracite	Mounted with two spring clips with cable ring (included) for a 68mm in-wall socket. Compatible with switching systems (e.g. Gira, Merten in standard 55mm). Operating temperature: -25...+55°C	30303202	193,00 €

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KNX Sensori Systems
Temperature/Humidity/Climate
Enthalpy + External Temperature Sensor (dew point regulation)

D

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KNX Sensors Temperature/Temperature/Humidity/Climate   Sensors: Sensirion SHT11/PT1000

TTFK

Product Database
arc_TFK.vd2

Product
Sensor Temperature-Humidity-Climate+

Application Description:
100_APB_SK0x-Txxx

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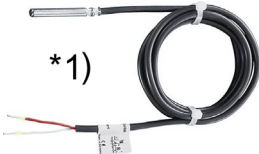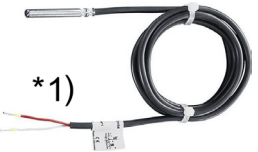No auxiliary voltage necessary.

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 displayed: 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
  The additional temperature reading is especially useful in preventing structural damage.
  The SK01-TTFK-E-53 calculates the dew point temperature with its integrated probe by
  measuring the room temperature and humidity content.
  The additional external sensor is placed directly on the coldest part of the structure
  and activates an alarm or makes an adjustment when the dew point
  temperature is reached.

SK01-TTFK	Article	Article Description	Article Nr.	List Price
SK01 with External Probe				Product Gr.1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 353_PBM ; 353_AST		
*1)	SK01-TTFK-AFF	KNX-Sensor temperature/humidity/climate for indoor/outdoor and damp locations (IP65). The temperature/humidity probe is protected from condensation and dust by a poroplast protective coating. Application: building automation, refrigeration, air-conditioning and ventilation technology, greenhouses etc. The boxes are mounted with two screws. Probe: 45mm, Ø=14mm Operating Temperature:-25...+55°C *1) An additional PT1000 Sensor (not included in delivery) for surface, screw-in or contacting sensor with customized cable-length can be ordered. (see rubric Z accessories)	30401053	262,00 €

KNX Sensori Systems
Temperature/Humidity/Climate
Enthalpy + External Temperature Sensor (dew point regulation)

D

SK01-TTFK	Article	Article Description	Article Nr.	List Price

SK01 with Pendulum Room Probe			Product Gr.1

EIB/KNX, on-wall, outdoor/damp room, IP65	Relevant documents: 100_APB ; 354_PBM ; 354_AST

	SK01-TTFK-RPFF	KNX Sensor temperature/humidity for indoor, outdoor and damp locations (IP65). The probe is protected from condensation and dust by a poroplast protective coating and is used as a pendulum room sensor. Application: building automation, refrigeration, air-conditioning and ventilation technology, greenhouses, in halls with high ceilings, etc. The boxes are mounted with two screws. Installation in rooms with high ceilings with sensor suspended from ceiling. Probe: 100mm, Cable Length: 2m Operating Temperature: -25...+55°C *1) An additional PT1000 Sensor (not included in delivery) for surface, screw-in or contacting sensor with customized cable-length can be ordered. (see rubric Z accessories)	30401054	300,00 €

SK01 with Pendulum Room Probe			Product Gr.1

EIB/KNX, on-wall, outdoor/damp room, IP65	Relevant documents: 100_APB ; 354_PBM ; 354_AST

	SK01-TTFK-MMF	KNX Sensor temperature/humidity/climater for indoor, outdoor and damp locations (IP65). The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor. Application: building automation, refrigeration, air-conditioning and ventilation technology, greenhouses, in halls with high ceilings, etc. The boxes are mounted with two screws. Installation in rooms with high ceilings with sensor suspended from ceiling. Probe: 100mm, Cable Length: 2m Operating Temperature: -25...+55°C *1) An additional PT1000 Sensor (not included in delivery) for surface, screw-in or contacting sensor with customized cable-length can be ordered. (see accessories)	30401056	333,00 €

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KNX Sensori Systems
Temperature/Humidity/Climate
Enthalpy + External Temperature Sensor (dew point regulation)

D

SK01-TTFK	Article	Article Description		Article Nr.	List Price
SK01 with Duct Probe					Product Gr.1
EIB/KNX, on-wall, outdoor/damp room, IP65		Relevant documents: 100_APB ; 257_PBM ; 257_AST			
*1)	SK01-TTFK-KFF	Temperature/Humidity/Climate Sensor for duct installation (IP65). The probe is protected from condensation and 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. Probe length: 230mm Operating temperature range: -20...+80°C Operating humidity range: 10...90% r.H. *1) An additional PT1000 Sensor (not included in delivery) for surface, screw-in or contacting sensor with customized cable-length can be ordered. (see accessories)		30401057	284,00 €

SK03-TTFK	Article	Article Description	Article Nr.	List Price
SK03				Product Gr.1
EIB/KNX, in-wall, indoors, IP20		Relevant documents: 100_APB ; 361_PBM ; 361_AST		
*1)	SK03-TTFK white	KNX Sensor integrated in box for on-wall mounting in dry interiors, IP20. Application: detecting/controlling room temperature in homes, hotels, offices, exhibition areas and schools. Mounted with two spring clips with cable ring (included) for a 68mm in-wall socket. Compatible with switching systems (e.g. Gira, Merten in standard 55mm). Operating temperature: -25...+55°C	30403201	245,00 €
	SK03-TTFK anthracite	*1) An additional PT1000 Sensor (not included in delivery) for surface, screw-in or contacting sensor with customized cable-length can be ordered. (see rubric Z accessories)	30403202	245,00 €

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KNX Sensors Physical and Chemical Measurement Technology

S8

Product Data Base
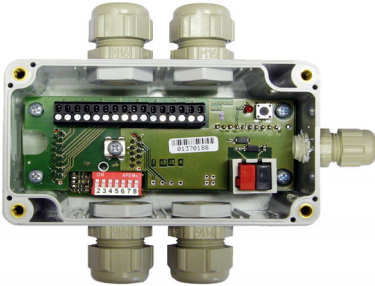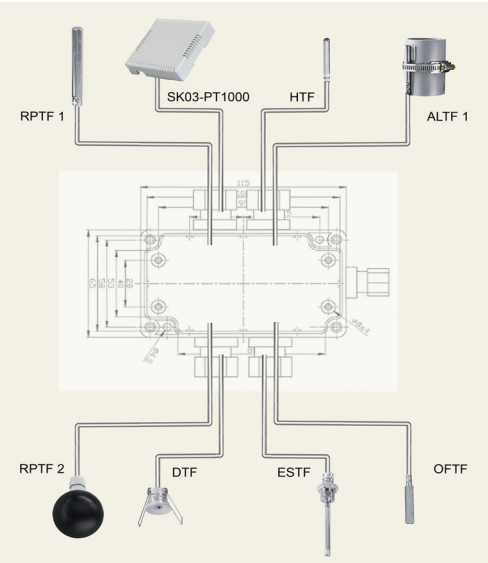**arc_S8.vd2**
Product
Physical and Chemical Measurement Technology

Application Description:

80x_APB_S8-xxx

The production series S8 uses sensors and controllers for a number of physical and chemical measurements for indoor and outdoor areas.

Functions :
Measured values (1Bit up to 4Byte Float) 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 alarm for upper and lower thresholds
- Auxiliary quantity of set value or threshold via the bus
- Calibration of the sensor (offset cancellation)

T8	Article	Article Description	Article Nr.	List Price
SK08-T8		Multiple-PT1000		Product Gr. 1
EIB/KNX Indoor/Outdoor, IP65		Relevant documents: 802_APB; 803_PBM		
	SK08-T8	KNX Controller 8 Channel Temperature for measuring and controlling up to 8 temperatures outdoors and (damp) indoors (IP 65). The temperatures are recorded with the external PT1000 temperature probe. Other temperature probes can also be used. Application: Monitoring and controlling the temperature for heating and cooling, as well as logging. Mounted on the wall with two screws. Additional PT1000 Sensors (not included in delivery) for surface, screw-in or contacting sensor with customized cable-length can be ordered. (see rubric Z accessories)	30801000	298,00 €
				Article Nr. and prices sensors PT1000 see **Rubric Z** Components/ Replacement Parts

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WAQ	Article	Article Description	Article Nr.	List Price
SK08-WAQ		Water Quality ph-ORP		Product Gr.1
EIB/KNX Indoor/Outdoor, IP65		Relevant documents: 800_APB; 801_PBM		
	SK08-WAQ Measuring Amplifier Bus Coupler	Sensor/Controller for detecting and controlling pH values of water and redox potential outdoors and (damp) indoors (IP65) without Measuring Electrode Unit. Mounted on the wall with two screws.	30802000	298,00 €
SK08-WAQ				Product Gr.10
	SK08-WAQ-MES incl. Measuring Electrode Unit	Sensor/Controller for detecting and controlling pH values of water and redox potential outdoors and (damp) indoors (IP65). Application: Monitoring of water quality in aquariums, swimming pools, ponds and service water systems, regulating disinfection systems Mounted on the wall with two screws.	30802001	398,00 €

CO2-TF	Article	Article Description	Article Nr.	List Price
XX2-S8-CO2-TF		Carbon Dioxide and Temperature/Humidity		Product Gr.10
EIB/KNX Indoor, IP20		Relevant documents: 804_APB; 805_PBM		
	AM2-S8-CO2-TF	Sensor/Controller for detecting and controlling the carbon dioxide value as well as room climate for temperature and humidity indoors (IP20). Application: Checking air quality and CO2 content in conference rooms, hotel rooms and workplaces, recording the temperature and relative humidity indoors.	30803001	398,00 €
	TL2-S8-CO2-TF	The sensor AM2-S8-CO2-TF fixed to a standard double socket (68 mm) with a magnet. The sensor TL2-S8-C02-TF is mounted directly onto the double socket (68 mm). Standard double socket and mounting units included.	30803002	392,00 €

GLBS	Article	Article Description	Article Nr.	List Price
SK08-GLBS		Global Irradiance		Product Gr.10
EIB/KNX Indoor/Outdoor, IP65		Relevant documents: 806_APB; 807_PBM		
	SK08-GLBS-MES incl. Global Irradiance Sensor	Global irradiance sensor, silicone pyranometer Area: 0..1800 W/m2 Accuracy: 5% Spectrum: 400..1100nm Temperature range: -40..+65°C Drift: typically 2% per year UV constant plastic casing with bubble level for exact vertical placement. Standard cable length: 1m	30804001	458,00 €

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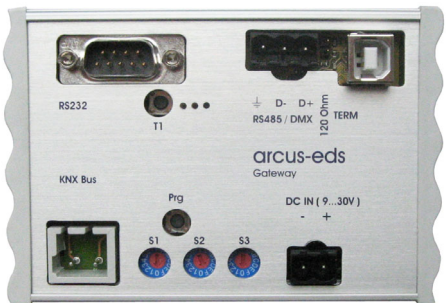| BFT	Article	Article Description	Article Nr.	List Price
SK08-BFT-WMT		Soil Humidity/Temperature		Product Gr.10
EIB/KNX Indoor/Outdoor, IP65		Relevant documents: 808_APB; 809_PBM		
	SK08-BFT-WMT incl. Watermark® Soil Humidity Sensor	Soil Humidity Sensor Watermark®-WM **(maintenance-free)** & Temperature Recording PT1000 The integrated controller enables automatic sprinkling of the ground according to the actual needs of the plants. The SK08-box is intended to be surface-mounted. Standard cable length: 5m other lengths available on request (see rubric Z accessories)	30805001	298,00 €
SK08-BFTLFT-AFF-WMT		Soil- and Air- Humidity/Temperature		Product Gr.10
EIB/KNX Indoor/Outdoor, IP65		Relevant documents: 808_APB; 809_PBM		
	SK08-BFTLFT-AFF-WMT incl. Watermark® Soil Humidity Sensor	Soil Humidity Sensor Watermark®-WM **(maintenance-free)** & Temperature Recording PT1000. Additional measured values of temperature and relative humidity of the air. The integrated controller enables automatic sprinkling of the ground according to the actual needs of the plants. The SK08-box is intended to be surface-mounted. Standard cable length: 5m other lengths available on request (see accessories)	30805021	335,00 €
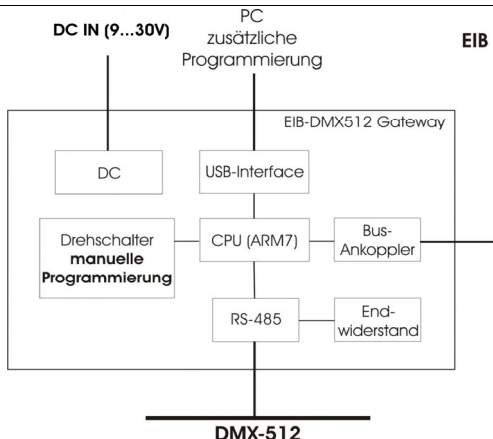
P				
SK08-P		Pressure Transmitters		Product Gr.10
EIB/KNX Indoor/Outdoor, IP65		Relevant documents:		
	SK08-P-DF-1000U	Sensor/Controller for recording and controlling excess pressure, low pressure and differential pressure in clean rooms, medical and filter technology, in air ducts, air-conditioning ducts, paint shops, in large-scale catering services, for filter monitoring and measuring fluid level. Mounted on the wall with two screws.	30806201	437,00 €
	SK08-P-SHD-LC-U6	Sensor/Controller for recording and controlling the excess pressure and low pressure for gaseous and liquid media, hydraulic, pneumatic, process technology, for machine building and plant engineering and construction for statistical and dynamic measurement. Mounted on the wall with two screws.	30806402	400,00 €

Additional pressure sensors are available from the company S+S.
All sensors from the series PREMASGARD® are compatible. Price available on request.
More information at: www.spluss.eu

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KNX Function module	Article description	Article Nr.	List Price
KNX-FM-REG			Product Gr.1

| | The REGFM Modul is a logic module, which is used in EIB/ KNX Systems. It is characterized by the free programming in the forth language interpreter. The 50 MHz ARM processor allows fast 32-bit integer operations and 64-bit floating point calculations. A self-compiling command interpreter produces fast and compact code.

Sample application are the KNX- DMX und RS232-Gateways (preprogrammed), Admission control systems, Data logging etc.

Additionally, the module REGFM contains programmable control and display elements. | 40020186 | 325,00 € |

	Relevant Document:	**400_PBS_KNX_FM_REG**
Technical Data	Dimensions:	92x71x24 mm (Inside Dimension), 107x75x31 mm (Outside Dimension)
	Protection Class:	IP20
	Mounting:	Modular DIN rail
	Ambient Temperature:	-5°C…+45°C
	Control Element:	3 x 16 stage turn-switch, 1 push-button, 2 LED users, 1 EIB push-button +LED
	KNX-Connection:	KNX-Clampblock
	KNX-Supply:	20 - 32V DC, ca. 150 mW
	RS232-Connection:	9-Pol D-Sub-9-M
	RS485-Connection:	3x Screw-in clamp 0,8 mm² /KL1 GND, KL2 Data – (B) , KL3 Data+ (A)
	Closing-off Resistance DMX512:	120 Ohm Jumper link
	Forth-Programming:	USB connector via PC-software ArcSuite (Forth-users for additional tools)
	Power Supply:	9-30V DC, 100 mA, internally insulated 2x Screw-in clamp
	RS485:	250.0 Kbaud max.
	RS232:	115.2 KBaud max.

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KNX Gateways	Article description	Article Nr.	List Price

KNX-GW-DMX | | Product Gr.1

KNX-DMX Gateway is an interface between the KNX bus and the DMX512 bus. It brings together elements from the area of building automation with a variety of light and special effects equipment for performances and events.

The KNX-DMX Gateway is ready to use and can be positioned to the main group addresses with an S1 rotary switch. It is not necessary to project via the ETS.

40120186 | 325,00 €

Relevant Document:	**410_PBS_KNX_GW_DMX**

Technical Data

Common data see function modul

DMX	3 screw-in clamps
Connection	0,8 mm² KL1 GND, KL2 Data – (B) , KL3 Data+ (A)
Closing-off Resistance	120 Ohm jumper link
Transfere rate	RS485 - 250 Kbaud max.

KNX-GW-RS232-RS485 | | Product Gr.1

KNX Series Gateway is an interface with the KNX bus and the serial ports RS232 and RS485. It brings together elements from the area of building automation and a variety of multimedia equipment.

With the free software tool
RS232-GW-Configurator
(Download / www.arcus-eds.de)
you can controll and set the parameters for the RS232-KNX Gateway.

40220186 | 325,00 €

Relevant Document:	**420_PBS_KNX_GW_RS232_RS485**

Technical Data		Common data see function modul
RS232	Connection	9-Pol D-Sub-9-M
	Forth-Programming	USB connector via PC-software ArcSuite (Forth-users for additional tools)
	Transfere rate	115.2 KBaud max.

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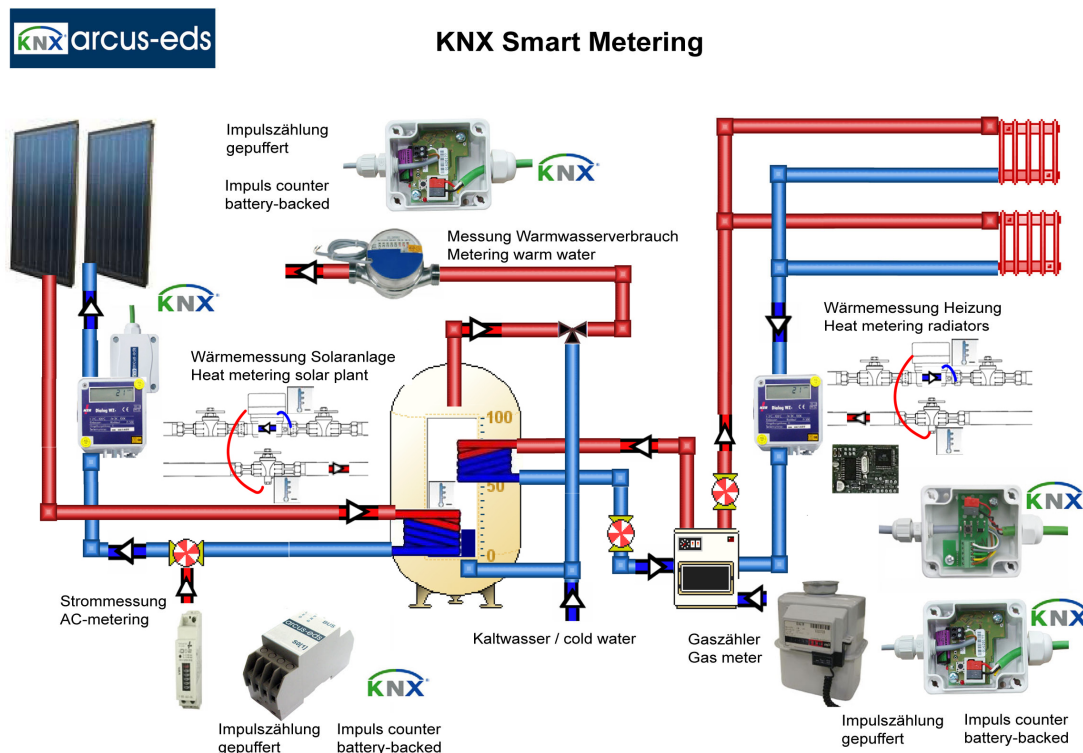
KNX Smart Metering

Heat metering (WMF)
The Arcus-EDS Heat Meter is a „Dialog WZ-CD" Heat Consumption Counter (calibration optional) from the company NZR, with an integrated KNX Bus Interface for remote reading and monitoring. The electronic counter is operated by a lithium battery with a 5-year lifespan and 1-year additional reserve. The KNX Bus Interface is built into the counter and is connected non-reactively with the external terminal block. The meter with the integrated Bus Interface is authorized by the Physikalisch Technischen Bundesanstalt (PTB) (Federal Institute of Physical Engineering).

Metering consumtion Impuls counter IMPZ
For a all-purpose consumption data logging for the KNX- Bus arcus-eds has developed a impulse counter module with backup data storage unit and KNX Bus Interface for remote reading and monitoring. The module in a IP65-Box is operated by a lithium battery with a 5-year lifespan and 1-year additional reserve.
Meter including a pulse output (S0 Interface, relay contact) irrespective of the medium are possible to connect to the KNX-Bus. The metering principle allows also an easily retrofitting in existing installations.
Appropriate meters for this application are the PTB-authorized meters for water, electricity and gas from the company NZR.

KNX Smart Metering

Impulszählung gepuffert
Impuls counter battery-backed

Messung Warmwasserverbrauch
Metering warm water

Wärmemessung Heizung
Heat metering radiators

Wärmemessung Solaranlage
Heat metering solar plant

Strommessung
AC-metering

Impulszählung gepuffert
Impuls counter battery-backed

Kaltwasser / cold water

Gaszähler
Gas meter

Impulszählung gepuffert
Impuls counter battery-backed

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arcus-eds | KNX

KNX-WMZ-WZ-CD	
Wärmemengenzähler Dialog WZ-CD /*Heat Meter Dialog WZ-CD*	Product Gr.10

KNX auslesbare Daten /*readable data* :

Seriennummer /*serial number*

Energiewert /*energy value*

Stichtagswert /*cut-off date value*

Volumen /*volume*

Durchfluss /*flow rate*

Wärmeleistung /*heating power*

Temperaturdifferenz /*temperature difference*

Vor- und Rücklauftemperatur /*supply and return temperature*

Temperaturbereich /
temperature range :

+15...90 °C

optional +15...120 °C

Document : **610_APB_WMZ_Wärme_NZR**

Preise ohne Eichgebühren /*prices exclusive of calibration fees*

WZ-CD Technical data		Connection	Note	Articel-Nr.	List Price
Nenndurchfluss /*flow rate*	**0,6 m³/h**	AG Zähler /*meter* **3/4 "**	trockene Fühler/ *dry sensors*	60101-85573106	
Nennweite /*nominal diameter*	15 mm				
Maximale Belastung /*max. flow rate*	1,2 m³/h	AG Verschraubung/ *screw connection* **1/2"**	nasse Fühler/ *wet sensors*	60101-85673106	252,50 €
Dauerbelastung /*max. working flow rate*	0,6 m³/h				
Baulänge /*length*	110 mm				
Nenndurchfluss /*flow rate*	**1,0 m³/h**	AG Zähler /*meter* **3/4 "**	trockene Fühler/ *dry sensors*	60101-85573110	
Nennweite /*nominal diameter*	15 mm				
Maximale Belastung /*max. flow rate*	2 m³/h	AG Verschraubung/ *screw connection* **1/2"**	nasse Fühler/ *wet sensors*	60101-85673110	252,50 €
Dauerbelastung /*max. working flow rate*	1,0 m³/h				
Baulänge /*length*	110 mm				
Nenndurchfluss /*flow rate*	**1,5 m³/h**	AG Zähler /*meter* **3/4 "**	trockene Fühler/ *dry sensors*	60101-85573115	
Nennweite /*nominal diameter*	15 mm				
Maximale Belastung /*max. flow rate*	3 m³/h	AG Verschraubung/ *screw connection* **1/2"**	nasse Fühler/ *wet sensors*	60101-85673115	252,50 €
Dauerbelastung /*max. working flow rate*	1,5 m³/h				
Baulänge /*length*	110 mm				
Nenndurchfluss /*flow rate*	**2,5 m³/h**	AG Zähler /*meter* **1 "**	trockene Fühler/ *dry sensors*	60101-85573125	
Nennweite /*nominal diameter*	20 mm				
Maximale Belastung /*max. flow rate*	5 m³/h	AG Verschraubung/ *screw connection* **3/4"**	nasse Fühler/ *wet sensors*	60101-85673125	257,50 €
Dauerbelastung /*max. working flow rate*	2,5 m³/h				
Baulänge /*length*	130 mm				

Eichgebühren /*calibration fees* **WZ-CD**	**31,70 €**

Additional devices are available from NZR. All meters in the WZ dialogue series are compatible. Prices available on request. Information on installation kit and adaptors at: www. nzr.de

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KNX - IMPZ

Impulszählermodul KNX-IMPZ /Pulsecounter KNX-IMPZ	Product Gr. 10

Anwendung: KNX-Busankopplung von Zählern mit Impulsausgängen

KNX auslesbare Daten */readable data :*

Seriennummer */serial number*

Akkumuliertes Volumen in m³ */accumulated volume in m³*

Momentaner Durchfluss m3/Zeiteinheit */current flow m³/unit of time*

Aktuelle Uhrzeit */current time*

Aktuelles Datum */current date*

Letztes Stichdatum */last control date*

Letzter Stichwert */last control reading*

Nächstes Stichdatum */next control date*

Verbrauchswert */consumption*

Verbrauchswert Reset */consumption reset*

Verbrauchswert Datum */consumption date*

Verbrauchswert Uhrzeit */consumption time*

KNX-IMPZ1	Article Description	Articel-Nr.	List Price
	KNX-IMPZ1 (IP65) 1 S0-Schnittstelle / 1 S0- Pulsecontact	60201101	150,00 €
	KNX-IMPZ2, (REG) 1 S0-Schnittstelle / 1 S0- Pulsecontact	60201102	162,00 €

KNX-IMPZ2	Article Description	Articel-Nr.	List Price
	KNX-IMPZ2 (IP65) 2 S0-Schnittstellen / 2S0- Pulsecontact	60201201	186,00 €
	KNX-IMPZ2 (REG) 2 S0-Schnittstellen / 2 S0- Pulsecontact	60201202	198,00 €

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KNX-IMPZ-WZ-M

Wohnungswasserzähler Modularis WZ-M */Water Meter Modularis WZ-M*   Product Gr. 10

KNX auslesbare Daten */readable data :*

Seriennummer */serial number*

Akkumuliertes Volumen in m³ */accumulated volume in m³*

Momentaner Durchfluss m³/Zeiteinheit */current flow m³/unit of time*

Aktuelle Uhrzeit */current time*

Aktuelles Datum */current date*

Letztes Stichdatum */last control date*

Letzter Stichwert */last control reading*

Nächstes Stichdatum */next control date*

Verbrauchswert */consumption*

Verbrauchswert Reset */consumption reset*

Verbrauchswert Datum */consumption date*

Verbrauchswert Uhrzeit */consumption time*

Document : **620_APB_IMPZ_Wasser_NZR**

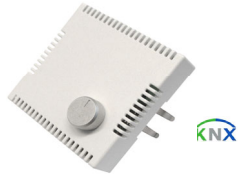**Preise ohne Eichgebühren** */prices exclusive of calibration fees*

WZ-M Technische Daten		Connection	Note	Articel-Nr.	List Price
Nenndurchfluss */flow rate*	1,5 m³/h	AG Zähler */meter 3/4"*	WZK-M kalt *cold* 30°C	60201-75124015	188,50 €
Nennweite */nominal diameter*	15 mm				
Maximaler Durchfluss */max. flow rate*	3 m³/h	AG Verschraubung */screw connection 1/2"*	WZW-M warm *warm* 90°C	60201-75124515	
Baulänge */length*	80 mm				
Nenndurchfluss */flow rate*	1,5 m³/h	AG Zähler */meter 3/4"*	WZK-M kalt *cold* 30°C	60201-75124115	188,50 €
Nennweite */nominal diameter*	15 mm				
Maximaler Durchfluss */max. flow rate*	3 m³/h	AG Verschraubung */screw connection 1/2"*	WZW-M warm *warm* 90°C	60201-75124615	
Baulänge */length*	110 mm				
Nenndurchfluss */flow rate*	2,5 m³/h	AG Zähler */meter 1"*	WZK-M kalt *cold* 30°C	60201-75124025	189,50 €
Nennweite */nominal diameter*	20 mm				
Maximaler Durchfluss */max. flow rate*	5 m³/h	AG Verschraubung */screw connection 3/4"*	WZW-M warm *warm* 90°C	60201-75124525	
Baulänge */length*	130 mm				

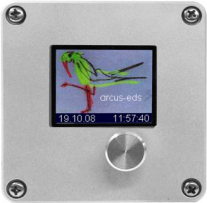| **Eichgebühren** */calibration fees* **WZ-M**	**kalt** */cold*	**6,40 €**
	warm */warm*	**7,50 €**

Additional devices are available from NZR. All water meters equipped with an SO interface are compatible with the impulse meter module. Price available on request.

Information at: www.nzr.de

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T	Article	Article Description	Article Nr.	List Price
SK03R		Integrated Temperature Sensor		Product Gr.
EIB/KNX, in-wall, Indoors, IP20		Relevant Documents: 100_APB ; 190_PBM		
	SK03R-T white	KNX Sensor Temperature internally integrated for in-wall mounting in dry indoor areas (IP20). **with additional temperature regulator knob** (LED optional)	30133201	prices on application
	SK03R-T anthracite	Application**:** Recording and controlling room temperature in homes, hotels, offices, exhibition areas and schools. Mounted with 2 spring clips and support ring (included) for a 68mm in-wall box. Compatible with 55 mm switching systems (e.g. Gira, Merten). Operating temperature: -25...+55°C	30133202	prices on application

MicroVis

MicroVis II logic		Special Applications IP65		Product Gr.1
Indoors, on-wall		Relevant Document: 021_PBM		
	MicroVis II logic IP65	The LCD Display MicroVis II Logic is used for operating, displaying as well as for monitoring and reporting in EIB/KNX systems. It serves the display and operation outdoors or in damp interiors. The LCD Display MicroVis II Logic uses a KNX/EIB Bus to communicate with a variety of modern electronic devices. Function display and page content are completely projectable. Every installation can be individually customized according to the customer's needs. A rotary push button operates the menu and allows switching and analogue value setting such as temperature, brightness and volume. Ambient Temperature: Storage -5...+60 °C, Operation -5...+55 °C	20011165	prices on application

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	Article	Article Description	Article Nr.	List Price
Accessories for T Sensor Systems / TTFK Sensor Systems Connection of an additional sensor				
Temperature Probe PT1000 for in-wall Box				Product Gr. 2
	SK03-PT1000 white	Temperature Probe PT1000 for in-wall box mounting with screw-in clamps. Compatible with switching systems (e.g. Gira, Merten in standard 55mm).	90104401	30,50 €
	SK03-PT1000 anthracite		90104402	30,50 €
Feed/Surface Probe				Product Gr. 2
	OFTF PT1000	Feed Temperature/Surface Probe -30..+105°C PVC Cable 1.5m	90100001	18,95 €
Sleeve Probe				Product Gr. 2
	HTF PT1000 PVC	Sleeve Probe PVC -35...+105°C PVC Cable 1.5m	90100002	11,75 €
	HTF **PT1000** Silicone	Silicone Sleeve Probe Waterproof -35...+180°C Silicone Cable 1.5m	90100003	14,90 €
	HTF PT1000 Teflon	Teflon Sleeve Probe -50...+250°C Teflon cable 1.5m	90100055	17,95 €
Pipe Feed Probe				Product Gr. 2
	ALTF1 PT1000 PVC	Feed Temperature/ Pipe Feed Probe -35...+105°C PVC Cable 1.5m	90100004	14,00 €
	ALTF1 **PT1000** Silicone	Feed Temperature/Pipe Feed Probe -35...+105°C Silicone Cable 1.5m	90100005	15,10 €
Screw-In Temperature Probe				Product Gr. 2
	ESTF PT1000-50 PVC	Screw-in Temperature Probe, Immersion Temperature Probe, G1/2, 50mm V4A, PVC -35...+105°C , 1.5m	90100008	28,50 €
	ESTF PT1000-100 PVC	Screw-in Temperature Probe, Immersion Temperature Probe, G1/2, 100mm V4A, PVC -35...+105°C, 1.5m	90100009	29,60 €
	ESTF **PT1000-50** Silicone	Screw-in Temperature Probe, Immersion Temperature Probe, G1/2, 50mm V4A Silicone -35...+180°C, 1.5m	90100010	29,50 €
	ESTF **PT1000-100** Silicone	Screw-in Temperature Probe, Immersion Temperature Probe, G1/2, 100mm V4A Silicone -35...+180°C, 1.5m	90100011	30,60 €

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	Article	Article Description	Article Nr.	List Price
Ceiling-Mounted Temperature Probe				Product Gr. 2
	DTF PT1000	Ceiling-Mounted Temperature Probe -20...+90°C	90100012	30,50 €
Pendulum Room Probe Temperature				Product Gr. 2
	RPTF1 PT1000	Pendulum Room Temperature Probe Storage Temperature.: -30...+100 °C Operating Temperature: -30...+75 °C Cable Length 1.5m	90100050	48,50 €
Pendulum Room Probe Temperature				Product Gr. 2
	RPTF2 PT1000	Pendulum Room Temperature Probe Storage Temperature.: -30...+100 °C Operating Temperature: -30...+60 °C Cable Length 1.5m	90100051	48,60 €

	Article	Article Description	Article Nr.	List Price
Additional cable lengths available on request				Product Gr. 2
Cable	AN-PVC-T2x025	PVC LiYY, 2x0,25 mm², Price per meter	90200220	0,85 €
	AN-Silicone-T2x025	Silicone SiHF, 2x0,25 mm², Price per meter	90200221	1,55 €
	AN-Teflon-T2x100	Teflon Li-6Y6Y-OZ, 2x1,00 mm², Price per meter	90200223	on request

	Article	Article Description	Article Nr.	List Price
Accessories for TFK Sensor Systems / TTFK Sensor Systems				
Pendulum Room Probe Temperature				Product Gr. 2
	RPFF (Sensirion)	Pendulum Room Humidity/Temperature Probe Storage Temperature: -25...+50 °C Operating Temperature: -5...+55 °C Cable Length PVC 2m	90100054	81,00 €
Raumpendelfühler Temperatur / Feuchte				Product Gr. 2
	RPFF-MMF (Sensirion)	Room Pendulum **Condensation Proof** Humidity/Temperature Probe Storage Temperature: -25...+50 °C Operating Temperature: -5...+55 °C Cable Length PVC 2m	90100056	104,00 €

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	Article	Article Description	Article Nr.	List Price
Accessories for KNX Sensor Systems S8				
Water Quality Probes WAQ				Product Gr..9
	Electrode Kit Single Rod Measuring Cells	Electrode Kit for the Sensor SK08-WAQ detecting pH values of water and redox potential	91110020	117,00 €
Global Irradiance Sensor GLBS				Product Gr..9
	GLBS-DAV6450	Global Irradiance Sensor for SK08-GLBS	91110021	160,00 €
	Mounting Set GLBS	Mounting Set for GLBS Sensor	9110022	27,00 €
Soil Moisture Probe Watermark WMT				Product Gr..2
	WMT	Water Mark Measuring Probe incl. Connecting Cable (Length 5m)	91100000	98,00 €
		Connecting Cable for WMT (each additional meter)	90200500	1,65 €

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