

| Visualisation                     |   | VISU     |
|-----------------------------------|---|----------|
| 3,5" TFT Display with Touchscreen |   | Touch_IT |
| Touch_IT SMART                    | 3,5" TFT Display mit Touchscreen for indoor usage<br>Visualisation and control in KNX systems<br>with integrated infrared temperature probe | IP20     |
| Touch_IT C3                       | 3,5" TFT Display with touchscreen for indoor usage<br>Visualisation and control in KNX systems  | IP20     |
| Touch_IT C3 IP65                  | 3,5" TFT Display with touchscreen for outdoor / damp room usage<br>Visualisation and control in KNX systems                                 | IP54/65  |

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

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

| KNX Sensorik / Control      Application: HLK305                             |   |  |    |                      |     |     | HVAC           |
|---|---|--|----|----------------------|-----|-----|----------------|
| B = Binary Contacts, PB = PushButton, R = Rotary Controller, L = Brightness |   |  |    |                      |     |     |                |
| CO2 = CO2 Concentration, VOC = VOC Concentration                            |   |  |    | Additional Functions |     |     |                |
| KNX Sensors / Controller  | Temperature / Humidity  | B  | PB | R                    | CO2 | VOC | THC            |
| SK30-THC-X  | measuring and controlling indoor air parameters, In-wall mounted  | X  | X  | X                    | X   | X   | IP20           |
| SK07-THC-4B   | Room climate measurement and control In-wall mounted  | X  |    |                      |     |     | IP20           |
| SK10L-THC-L-AFF   | Room climate measurement and control brightness detection, On-wall mounted  | X  |    | X                    |     |     | IP54/65        |
| SK10-THC-X  | Room climate measurement and control On-wall mounted  | X  |    |                      |     |     | IP54/65        |
| KNX Sensors / Controller  | Temperature / Temperature / Humidity  | B  | PB | R                    | CO2 | VOC | TTHC           |
| SK30-TTHC-X   | measuring and controlling indoor air parameters, In-wall mounted<br>Connection for additional temperature sensor        | X  | X  | X                    | X   | X   | IP20           |
| SK07-TTHC-4B  | Room climate measurement and control Connection for additional temperature sensor In-wall mounted                       | X  |    |                      |     |     | IP20           |
| SK10L-TTHC-L-AFF  | Room climate measurement and control Connection for additional temperature sensor brightness detection, On-wall mounted | X  |    | X                    |     |     | IP54/65        |
| SK10-TTHC-X   | Room climate measurement and control Connection for additional temperature sensor On-wall mounted                       | X  |    |                      |     |     | IP54/65        |
|   |   |  |    |                      |     |     |                |
| KNX Actuators   |   |  |    |                      |     |     | HVAC           |
| KNX Actuators    Ventilation  |   | Lunos domestic ventilation systems with heat recovery  |    |                      |     |     |                |
| KNX-Lunos-Control4-IW   |   | Control of decentralized ventilation systems from company Lunos In-wall mounted                                    |    |                      |     |     | IP20           |
| KNX Actuators    Heating  |   |  |    |                      |     |     |                |
| SK08-Ventil4  |   | Control of decentralized valves of heaters On-wall mounted   |    |                      |     |     | IP54/65        |
|   |   |  |    |                      |     |     |                |
| KNX Sensors   |   | Physical and Chemical Instrumentation  |    |                      |     |     | S8             |
| SK08-T8   |   | Temperature measurement for 8 channels ( PT1000 )<br>Monitoring and control of temperatures in different locations |    |                      |     |     | T8<br>IP54/65  |
| SK08-WAQ  |   | Water quality    pH, ORP ( Redox potential )<br>for aquariums, swimming pools, ponds                               |    |                      |     |     | WAQ<br>IP54/65 |
| AX-S8-CO2-TF  |   | CO2 concentration ( 0 .. 5000 ppm ) / temperature / humidity / climate<br>In-wall and on-wall mounted              |    |                      |     |     | CO2-TF<br>IP20 |
| AX-S8-CO2-TF  |   | CO2 concentration ( 0 .. 5000 ppm ) / temperature / humidity / climate<br>In-wall and on-wall mounted              |    |                      |     |     | CO2-TF<br>IP20 |

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

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

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

| KNX Smart Metering with Integrated Meters |  | SM                      |
|---|--|-------------------------|
| <b>KNX-IMPZ-WZ-M</b>                      | Water meter Modularis WZ-M with KNX-IMPZ1<br>up to 2,5 m <sup>3</sup> /h throughput, calibration included                        | <b>IMPZ1</b><br>IP54/65 |
| <b>KNX-WMZ-WZ-HY</b>                      | Thermal energy meter WZ-HY with integrated KNX bus coupling unit<br>up to 2,5 m <sup>3</sup> /h throughput, calibration included | <b>WMZ</b><br>IP54/65   |

| KNX               | Lighting  | LUM                |
|-------------------|---|--------------------|
| <b>KNX-GW-DMX</b> | KNX to DMX gateway DIN rail mounted<br>Control of LED / RGB lighting systems / DMX512 | <b>DMX</b><br>IP20 |

| KNX                     | System Devices  | SYS                     |
|-------------------------|---|-------------------------|
| <b>KNX-Drossel-DR16</b> | Choke to decouple the KNX/EIB bus from the supply voltage, 1,6A<br>DIN rail mounted | <b>Drossel</b><br>IP20  |
| <b>SK10L-GPS-SC-L</b>   | Time modul timer, astro clock, system time, brightness detection<br>On-wall mounted | <b>GPS</b><br>IP54/65   |
| <b>KNX-GW-IP-2TE</b>    | IP gateway to link the ETS ( PC software tool ) to the KNX bus<br>REG               | <b>IP / LAN</b><br>IP20 |

## Components / Replacement Parts

## VISU

**3,5" TFT Display with Touchscreen SMART**

3.5" TFT Display with 256K colors and touchscreen for visualisation and control in KNX systems.



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



MicroSD Slot  
accessible from  
the outside

Integrierter infrared  
temperature probe

**Technical Data**

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

**Programming**

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

**Mounting**





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

**Environmental conditions**

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

**Power supply**

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

| VISU  | Article                   | Article Description  | Article No. |
|---|---------------------------|--|-------------|
| <b>Touch_IT SMART Aluminium</b>   |                           |  |             |
| KNX, in-wall, indoor, IP20  |                           | Document: 1100_ex_Touch_IT C3.pdf  |             |
|    | Touch_IT<br>SMART<br>-SAE | 3,5" Display metal housing<br>81 x 81 x 12 mm<br>Aluminium sandblasted anodized<br><br>Integrated infrared temperature probe<br><br>Mounted using subplate ( included ) magnetic<br>fixture and theft protection screw into standard<br>in-wall pattress ( 60 / 68 mm )  | 22310500    |
|    | Touch_IT<br>SMART<br>-SAW | 3,5" Display metal housing<br>81 x 81 x 12 mm<br>Aluminium white powder-coated<br><br>Integrated infrared temperature probe<br><br>Mounted using subplate ( included ) magnetic<br>fixture and theft protection screw into standard<br>in-wall pattress ( 60 / 68 mm )   | 22310501    |
|  | Touch_IT<br>SMART<br>-SAS | 3,5" Display metal housing<br>81 x 81 x 12 mm<br>Aluminium sanded anodized<br><br>Integrated infrared temperature probe<br><br>Mounted using subplate ( included ) magnetic<br>fixture and theft protection screw into standard<br>in-wall pattress ( 60 / 68 mm )       | 22310503    |
|  | Touch_IT<br>SMART<br>-SAB | 3,5" Display metal housing<br>81 x 81 x 12 mm<br>Aluminium sanded black anodized<br><br>Integrated infrared temperature probe<br><br>Mounted using subplate ( included ) magnetic<br>fixture and theft protection screw into standard<br>in-wall pattress ( 60 / 68 mm ) | 22310504    |

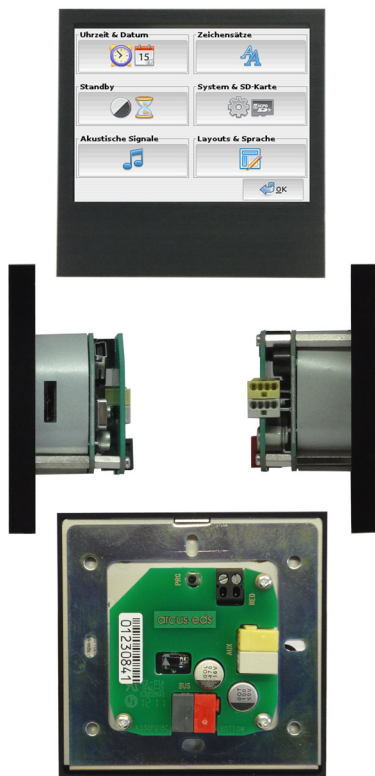
## VISU

**3,5" TFT Display with Touchscreen C3**

3.5" TFT Display with 256K colors and touchscreen for visualisation and control in KNX systems.



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

**Technical Data**

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

**Programming**

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

**Mounting**



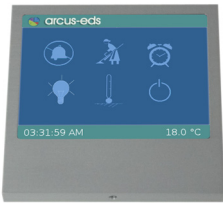


- Magnetic fixture with metal frame ( included ) for 60/68mm in-wall mounting
- For swiss systems suitable ( Feller )
- Theft protection by hidden headless screw



**Environmental conditions**



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


**Power supply**

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

| VISU  | Article             | Article Description   | Article No. |
|---|---------------------|---|-------------|
| <b>Touch_IT C3 Aluminium Sanded</b>   |                     |   |             |
| KNX, in-wall, indoor, IP20  |                     | Document: 1100_ex_Touch_IT C3.pdf   |             |
|    | Touch_IT C3<br>-SAE | 3,5" Display metal housing<br>81 x 81 x 8 mm square-edged<br>Aluminium sandblasted<br>anodized<br><br>Mounted using subplate ( included ) magnetic<br>fixture and theft protection screw into standard<br>in-wall pattress ( 60 / 68 mm ).            | 22310300    |
|    | Touch_IT C3<br>-SAW | 3,5" Display metal housing<br>81 x 81 x 8 mm square-edged<br>Aluminium sandblasted<br>white powder-coated<br><br>Mounted using subplate ( included ) magnetic<br>fixture and theft protection screw into standard<br>in-wall pattress ( 60 / 68 mm ). | 22310301    |
|  | Touch_IT C3<br>-SAS | 3,5" Display metal housing<br>81 x 81 x 8 mm square-edged<br>Aluminium sanded<br>anodized<br><br>Mounted using subplate ( included ) magnetic<br>fixture and theft protection screw into standard<br>in-wall pattress ( 60 / 68 mm ).                 | 22310303    |
|  | Touch_IT C3<br>-SAB | 3,5" Display metal housing<br>81 x 81 x 8 mm square-edged<br>Aluminium sanded<br>black anodized<br><br>Mounted using subplate ( included ) magnetic<br>fixture and theft protection screw into standard<br>in-wall pattress ( 60 / 68 mm ).           | 22310304    |
|  | Touch_IT C3<br>-SAG | 3,5" Display metal housing<br>81 x 81 x 8 mm square-edged<br>Aluminium sanded<br>steel grey anodized<br><br>Mounted using subplate ( included ) magnetic<br>fixture and theft protection screw into standard<br>in-wall pattress ( 60 / 68 mm ).      | 22310305    |

| Touch_IT C3 Aluminium Sandblasted   |                    |   |  |
|---|--------------------|---|--|
| KNX, in-wall, indoor, IP20  |                    | Document: 1100_ex_Touch_IT C3.pdf   |  |
|  | Touch_IT C3<br>-AE | 3,5" Display metal housing<br>82 x 82 x 8 mm with bevel<br>Aluminium sandblasted<br>anodized<br><br>Mounted using subplate ( included ) magnetic<br>fixture and theft protection screw into standard<br>in-wall pattress ( 60 / 68 mm ).            |  |
|  | Touch_IT C3<br>-AW | 3,5" Display metal housing<br>82 x 82 x 8 mm with bevel<br>Aluminium sandblasted<br>white powder-coated<br><br>Mounted using subplate ( included ) magnetic<br>fixture and theft protection screw into standard<br>in-wall pattress ( 60 / 68 mm ). |  |

| Touch_IT C3 Brass   |                     |   |          |
|---|---------------------|---|----------|
| KNX, in-wall, indoor, IP20  |                     | Document: 1100_ex_Touch_IT C3.pdf   |          |
|  | Touch_IT C3<br>-SMB | 3,5" Display metal housing<br>81 x 81 x 8 mm square-edged<br>Brass sanded<br>bronzed<br><br>Mounted using subplate ( included ) magnetic<br>fixture and theft protection screw into standard<br>in-wall pattress ( 60 / 68 mm )       | 22310400 |
|  | Touch_IT C3<br>-SMG | 3,5" Display metal housing<br>81 x 81 x 8 mm square-edged<br>Brass polished<br>gold plated<br><br>Mounted using subplate ( included ) magnetic<br>fixture and theft protection screw into standard<br>in-wall pattress ( 60 / 68 mm ) | 22310407 |

| VISU  | Article                 | Article Description   | Article No. |
|---|-------------------------|---|-------------|
| <b>Touch_IT C3 IP65</b>   |                         |   |             |
| KNX, on-wall, outdoor / damp room, IP65   |                         | Document: 1100_ex_Touch_IT C3.pdf   |             |
|  | Touch_IT C3<br>-AE-IP65 | 3,5" Display for on-wall mounting<br>120 x 80 x 48 mm<br>Aluminium anodized, plastic subshell<br><br>For indoor / outdoor and damp room<br>IP65 | 22310265    |



## KNX-Sensors Temperature

Sensor: PT1000

## T



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



Product Data Base: **ARC\_TFK**




Application Description: **100\_ex\_APB\_SK0x-Txxx.pdf**



ETS Application:



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


| SK01-T  | Article     | Article Description  | Article No. |
|---|-------------|--|-------------|
| <b>SK01 without Temperature Probe</b>   |             |  |             |
| KNX, on-wall, indoor/outdoor, IP54/65   |             | Document: 2101_ex_SK01-T.pdf   |             |
|  | SK01-T      | KNX Sensor / Controller Temperature<br><br>Operating temperature: -25 .. +80 °C<br><br>Plastic housing: 72 x 64 x 40 mm<br>For indoor / outdoor and damp room<br>IP54/65<br><br>Without temperature probe  | 30101000    |
| <b>SK01 with Surface Contacting Probe</b>   |             |  |             |
| KNX, on-wall, indoor/outdoor, IP54/65   |             | Document: 2102_ex_SK01-T-OFTF.pdf  |             |
|  | SK01-T-OFTF | KNX Sensor / Controller Temperature<br>Surface-Contacting probe, square, for flat surfaces.<br>The aluminium casing of the PT1000 temperature probe is attached to the surface with glue.<br><br>Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +105 °C<br>Probe: 8 x 8 x 40 mm<br>Connecting cable: PVC 1,5 m<br><br>Plastic housing: 72 x 64 x 40 mm | 30101001    |



| SK01-T  | Article                        | Article Description   | Article No. |
|---|--------------------------------|---|-------------|
| SK01 with Sleeve Probe  |                                |   |             |
| KNX, on-wall, indoor/outdoor, IP54/65   |                                | Document: 2103_ex_SK01-T-HTF.pdf  |             |
| <p>KNX Sensor / Controller Temperature</p> <p>With sleeve probe ( PT1000 ) for temperature detection in liquid and gaseous media using an immersion sleeve.</p> <p>Probe: V4A stainless steel, sleeve sensor, round , rolled stamped ( protected from humidity ) 50 mm, Ø 6 mm.</p> <p>Plastic housing: 72 x 64 x 40 mm</p> <p>For indoor / outdoor and damp room, IP54/65</p> <p>with PTFE cable IP68</p>              |                                |   |             |
|   | SK01-T-HTF<br>PVC 1,5 m        | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -35 .. +105 °C<br>Connecting cable: PVC 1,5 m<br>IP54/65          | 30101002    |
|   | SK01-T-HTF<br>Silicone 1,5 m   | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -50 .. +180 °C<br>Connecting cable: Silicone 1,5 m<br>IP54/65     | 30101003    |
|   | SK01-T-HTF<br>PTFE 1,5 m       | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -50 .. +250 °C<br>Connecting cable IP68: PTFE 1,5 m<br>IP54/65    | 30101055    |
| SK01 with Contacting / Tube Contacting Probe  |                                |   |             |
| KNX, on-wall, indoor/outdoor, IP54/65   |                                | Document: 2104_ex_SK01-T-ALTF1.pdf  |             |
| <p>KNX Sensor / Controller Temperature</p> <p>with axial probe tube for temperature detection of liquid and gaseous media on pipes and tubes.</p> <p>Installation on pipe with endless straps and metal tightener ( included ).</p> <p>Strap dimensions: Ø 13-92 mm ( 1/4 - 3" ), 300 mm</p> <p>( included in delivery )</p> <p>Plastic housing: 72 x 64 x 40 mm</p> <p>For indoor / outdoor and damp room, IP54/65</p> |                                |   |             |
|    | SK01-T-ALTF1<br>PVC 1,5 m      | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -35 .. +105 °C<br>Connecting cable: PVC 1,5 m<br><br>IP54/65      | 30101004    |
|   | SK01-T-ALTF1<br>Silicone 1,5 m | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -35 .. +180 °C<br>Connecting cable: Silicone 1,5 m<br><br>IP54/65 | 30101005    |


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



| SK01-T   | Article                    | Article Description                                   |                                 | Article No. |
|--|----------------------------|---|---------------------------------|-------------|
| SK01 with Screw-in / Immersion Probe, Brass Immersion Sleeve   |                            |   |                                 |             |
| KNX, indoor/outdoor, IP54/65   |                            | Document: 2108_ex_SK01-T-ETF1.pdf                     |                                 |             |
| KNX Sensor / Controller Temperature<br>The PT1000 probe is in a brass sheath tube ( G 1/2", Ø 6 mm ), which is inside a brass immersion sleeve ( Ø 8 mm, max. pressure 10 bar).<br>Used for temperature detection in liquid or gaseous media, in heating plants, circulation and climate technology.   |                            |   |                                 |             |
| Plastic housing: 72 x 64 x 40 mm<br>For indoor / outdoor and damp room, IP54/65  |                            |   |                                 |             |
|    | SK01-T-ETF1<br>50mm brass  | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101013    |
|  | SK01-T-ETF1<br>100mm brass | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101014    |
|  | SK01-T-ETF1<br>150mm brass | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101015    |
|  | SK01-T-ETF1<br>200mm brass | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101016    |
|  | SK01-T-ETF1<br>250mm brass | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101017    |
|  | SK01-T-ETF1<br>300mm brass | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101018    |
|  | SK01-T-ETF1<br>400mm brass | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101019    |
| SK01 with Screw-in Immersion Probe, Immersion Sleeve V4A   |                            |   |                                 |             |
| KNX, indoor/outdoor, IP54/65   |                            | Document: 2109_ex_SK01-T-ETF2.pdf                     |                                 |             |
| KNX Sensor / Controller Temperature<br>The PT1000 probe is in a V4A steel sheath tube ( G 1/2", Ø 6 mm ), which is inside a V4A immersion sleeve ( Ø 8 mm, max. pressure 40 bar).<br>Used for temperature detection in liquid or gaseous media, in heating plants, circulation and climate technology. |                            |   |                                 |             |
| Plastic housing: 72 x 64 x 40 mm<br>For indoor / outdoor and damp room, IP54/65  |                            |   |                                 |             |
|   | SK01-T-ETF2<br>50mm V4A    | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101020    |
|  | SK01-T-ETF2<br>100mm V4A   | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101021    |
|  | SK01-T-ETF2<br>150mm V4A   | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101022    |
|  | SK01-T-ETF2<br>200mm V4A   | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101023    |
|  | SK01-T-ETF2<br>250mm V4A   | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101024    |
|  | SK01-T-ETF2<br>300mm V4A   | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101025    |
|  | SK01-T-ETF2<br>400mm V4A   | Operating temperature:<br>Measured temperature range: | -25 .. +80 °C<br>-30 .. +150 °C | 30101026    |

| SK01-T   | Article                  | Article Description   | Article No. |
|--|--------------------------|---|-------------|
| SK01 with Screw-in Immersion Probe, Immersion Sleeve with Extended Shaft V4A   |                          |   |             |
| KNX, indoor/outdoor, IP54/65   |                          | Document: 2110_ex_SK01-T-ETF3.pdf   |             |
| <p>KNX Sensor / Controller Temperature</p> <p>The PT1000 probe is in a V4A steel sheath tube ( G 1/2", Ø 6 mm ), which is inside a V4A stainless steel immersion sleeve ( max. pressure 40 bar).</p> <p>Installed using pipes and cases with the immersion sleeve ( included ).</p> <p>Plastic housing: 72 x 64 x 40 mm</p> <p>For indoor / outdoor and damp room, IP54/65</p>   |                          |   |             |
|    | SK01-T-ETF3<br>50mm V4A  | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C                          | 30101027    |
|  | SK01-T-ETF3<br>100mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C                          | 30101028    |
|  | SK01-T-ETF3<br>150mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C                          | 30101029    |
|  | SK01-T-ETF3<br>200mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C                          | 30101030    |
|  | SK01-T-ETF3<br>250mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C                          | 30101031    |
|  | SK01-T-ETF3<br>300mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C                          | 30101032    |
|  | SK01-T-ETF3<br>400mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C                          | 30101033    |
| SK01 with Screw-in/Immersion Probe with Ext. Shaft with NeckTube for Quick Responsivity  |                          |   |             |
| KNX, indoor/outdoor, IP54/65   |                          | Document: 2111_ex_SK01-T-ETF7.pdf   |             |
| <p>KNX Sensor / Controller Temperature</p> <p>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.</p> <p>Pipe length: 25 mm</p> <p>Pipe measurements: Ø 6 mm, plain tapered Ø 4 mm</p> <p>Protective material: stainless steel</p> <p>Plastic housing: 72 x 64 x 40 mm</p> <p>For indoor / outdoor and damp room, IP54/65</p> |                          |   |             |
|   | SK01-T-ETF7<br>100mm     | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C<br>Probe: G 1/2", 100 mm | 30101034    |
|  | SK01-T-ETF7<br>150mm     | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C<br>Probe: G 1/2", 150 mm | 30101035    |
|  | SK01-T-ETF7<br>250mm     | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C<br>Probe: G 1/2", 250 mm | 30101036    |

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

| SK01-T   | Article      | Article Description   | Article No. |
|--|--------------|---|-------------|
| <b>SK01 with Pendulum Room Probe</b>   |              |   |             |
| KNX, on-wall, indoor/outdoor, IP54/65  |              | Document: 2113_ex_SK01-T-RPTF1.pdf  |             |
|   | SK01-T-RPTF1 | <p>KNX Sensor / Controller Temperature</p> <p>Temperature probe PT1000 is in sheath tube. Installation in rooms with a high ceiling with a suspended sensor.</p> <p>Probe: 100 mm, M12 / 1,5 mm<br/>           Operating temperature: -25 .. +80 °C<br/>           Measured temperature range: -30 .. +75 °C<br/>           Connecting cable: PVC 1,5 m</p> <p>Plastic housing: 72 x 64 x 40 mm<br/>           For indoor / outdoor and damp room<br/>           IP54/65</p>  | 30101050    |
| <b>SK01 with Pendulum Room Probe ( Globe Thermometer )</b>                         |              |   |             |
| KNX, on-wall, indoor/outdoor, IP54/65  |              | Document: 2114_ex_SK01-T-RPTF2.pdf  |             |
|  | SK01-T-RPTF2 | <p>KNX Sensor / Controller Temperature</p> <p>Temperature probe PT1000 is in a black plastic sphere ( Ø 50 mm )<br/>           Dark radiation probe detects radiation and radiation heat.<br/>           Installation in rooms with high ceilings with suspended sensor.</p> <p>Operating temperature: -25 .. +80 °C<br/>           Measured temperature range: -30 .. +80 °C<br/>           Connecting cable: PVC 1,5 m</p> <p>Plastic housing: 72 x 64 x 40 mm<br/>           For indoor / outdoor and damp room<br/>           IP54/65</p> | 30101051    |

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

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

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


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



Product Data Base: **ARC\_TFK**


Application Description: **100\_ex\_APB\_SK0x-Txxx.pdf**

ETS Application:


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



| SK01-TFK  | Article          | Article Description  | Article No. |
|---|------------------|--|-------------|
| <b>SK01 with External Probe</b>   |                  |  |             |
| KNX, on-wall, indoor/outdoor, IP54/65   |                  | Document: 2201_ex_SK01-TFK-AFF.pdf   |             |
|  | SK01-TFK<br>-AFF | KNX Sensor / Controller<br>Temperature / Humidity / Climate<br>The probe is protected from dust by a poroplast protective coating.<br>Application: building automation, refrigeration, airconditioning and ventilation systems, clean rooms, greenhouses, etc.<br>Probe length: 45 mm<br>Operating temperature: -20 .. +80 °C<br>Measured temperature range: -20 .. +80 °C<br>Measured humidity range: 10 .. 90% r.H.<br>Plastic housing: 72 x 64 x 40 mm<br>For indoor / outdoor and damp room<br>IP54/65 | 30301053    |

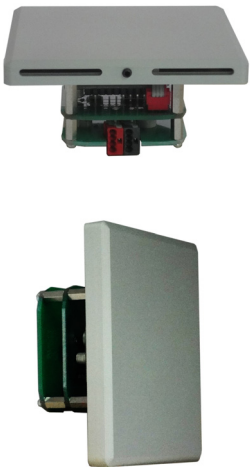

| SK01-TFK   | Article                   | Article Description  | Article No. |
|--|---------------------------|--|-------------|
| SK01 with Pendulum Room Probe  |                           |  |             |
| KNX, on-wall, indoor/outdoor, IP54/65  |                           | Document: 2202_ex_SK01-TFK-RPFF-MMF.pdf  |             |
| KNX Sensor / Controller<br>Temperature / Humidity / Climate  |                           |  |             |
| Application: building automation, refrigeration, airconditioning and clean room technology, greenhouses, halls with high ceilings.<br>Installation in rooms with high ceilings with the sensor suspended from the ceiling. |                           |  |             |
| For indoor / outdoor and damp room, IP54/65  |                           |  |             |
|    | SK01-TFK<br>-RPFF         | <p>The probe is protected from dust by a poroplast protective coating and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm<br/>Connecting cable: PVC 2 m</p> <p>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 10 .. 90% r.H.</p> <p>Plastic housing: 72 x 64 x 40 mm<br/>For indoor / outdoor and damp room<br/>IP54/65</p>                    | 30301054    |
|   | SK01-TFK<br>-RPFF<br>-MMF | <p>The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm<br/>Connecting cable: PVC 2 m</p> <p>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 10 .. 90% r.H.</p> <p>Plastic housing: 72 x 64 x 40 mm<br/>For indoor / outdoor and damp room<br/>IP54/65</p> | 30301056    |

| SK01-TFK  | Article      | Article Description   | Article No. |
|---|--------------|---|-------------|
| <b>SK01 with Duct Probe</b>   |              |   |             |
| KNX, indoor/outdoor, IP54/65  |              | Document: 2203_ex_SK01-TFK-KFF.pdf  |             |
|  | SK01-TFK-KFF | <p>KNX Sensor / Controller<br/>Temperature / Humidity / Climate</p> <p>The probe is protected from dust by a poroplast protective coating.<br/>Application: detection of temperature in air ducts, local regulation in heating systems for constant KNX valves or electrothermal valves, local air regulation.</p> <p>Installation: The boxes are fixed to the air duct with a plastic sleeve and two screws.</p> <p>Probe length: 230 mm<br/>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 10 .. 90% r.H.</p> <p>Plastic housing: 72 x 64 x 40 mm<br/>For indoor / outdoor and damp room<br/>IP54/65</p> | 30301057    |

A

| SK02-TFK  | Article  | Article Description  | Article No. |
|---|----------|--|-------------|
| <b>SK02</b>   |          | Temperature Probe Integrated in Box  |             |
| KNX, on-wall, indoor, IP20  |          | Document: 2204_ex_SK02-TFK.pdf   |             |
|  | SK02-TFK | KNX Sensor / Controller<br>Temperature / Humidity / Climate<br><br>Use: detecting and controlling room temperature in homes, hotels, offices, exhibition areas and schools.<br><br>Operating temperature: -25 .. +55 °C<br>Measured temperature range: -25 .. +55 °C<br>Measured humidity range: 10 .. 90% r.H.<br><br>Plastic housing: 71 x 71 x 25 mm<br>For in-wall mounting in dry interiors<br>IP20 | 30302201    |

| SK03-TFK   | Article  | Article Description   | Article No. |
|--|----------|---|-------------|
| <b>SK03</b>  |          | Temperature probe integrated in box   |             |
| KNX, in-wall, indoor, IP20   |          | Document: 2205_ex_SK03-TFK.pdf  |             |
| KNX Sensor / Controller<br>Temperature / Humidity / Climate<br><br>Detecting and controlling room climate in homes, hotels, offices, exhibition areas and schools.<br>Compatible with switching systems ( e.g. Gira, Merten in standard 55 mm ).<br><br>Mounted with two spring clips with cable ring ( included ) for a ( 60 / 68 mm ) in-wall pattress.<br><br>For in-wall mounting in dry interiors, IP20 |          |   |             |
|   | SK03-TFK | Plastic housing: white<br>Frame: 55 mm<br><br>Operating temperature: -25 .. +55 °C<br>Measured temperature range: -25 .. +55 °C<br>Measured humidity range: 10 .. 90% r.H.<br><br>For in-wall mounting in dry interiors<br>IP20     | 30303201    |
|   | SK03-TFK | Plastic housing: anthrazit<br>Frame: 55 mm<br><br>Operating temperature: -25 .. +55 °C<br>Measured temperature range: -25 .. +55 °C<br>Measured humidity range: 10 .. 90% r.H.<br><br>For in-wall mounting in dry interiors<br>IP20 | 30303202    |

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

**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**





Application Description: **100\_ex\_APB\_SK0x-Txxx.pdf**

ETS Application:

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

| SK01-TTFK   | Article   | Article Description  | Article No. |
|---|---|--|-------------|
| SK01 with External Probe  |   |  |             |
| KNX, on-wall, indoor/outdoor, IP54/65   |   | Document: 2301_ex_SK01-TTFK-AFF.pdf  |             |
| KNX Sensor / Controller<br>Temperature / Temperature / Humidity / Climate / Dewpoint control                  |   |  |             |
| Application: building automation, refrigeration, airconditioning and ventilation technology, greenhouses etc. |   |  |             |
|                            | SK01-TTFK-AFF   | <p>The temperature / humidity probe is protected from dust by a poroplast protective coating.</p> <p>Probe length: 45 mm<br/>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 10 .. 90% r.H.</p> <p>Plastic housing: 72 x 64 x 40 mm<br/>For indoor / outdoor and damp room<br/>IP54/65</p> <p>An additional PT1000 probe not included in delivery.</p> | 30401053    |
|                            |  | <p>An additional PT1000 probe for surface mounting, screwing in or contacting with customized cable-length can be ordered.</p> <p>( see rubric Z, Components / Replacement Parts )</p>   |             |

| SK01-TTFK  | Article   | Article Description  | Article No. |
|--|---|--|-------------|
| SK01 with Pendulum Room Probe  |   |  |             |
| KNX, on-wall, indoor/outdoor, IP54/65  |   | Document: 2302_ex_SK01-TTFK-RPFF-MMF.pdf   |             |
| KNX Sensor / Controller<br>Temperature / Temperature / Humidity / Climate / Dewpoint control<br><br>Application: building automation, refrigeration, airconditioning and ventilation technology, greenhouses, in halls with high ceilings, etc.<br><br>For indoor / outdoor and damp room, IP54/65 |   |  |             |
|    | SK01-TTFK<br>-RPFF  | <p>The probe is protected from dust by a poroplast protective coating and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm<br/>Connecting cable: PVC 2 m</p> <p>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 10 .. 90% r.H.</p> <p>Plastic housing: 72 x 64 x 40 mm<br/>For indoor / outdoor and damp room<br/>IP54/65</p> <p>An additional PT1000 probe not included in delivery.</p>                    | 30401054    |
|   | SK01-TTFK<br>-RPFF<br>-MMF  | <p>The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm<br/>Connecting cable: PVC 2 m</p> <p>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 10 .. 90% r.H.</p> <p>Plastic housing: 72 x 64 x 40 mm<br/>For indoor / outdoor and damp room<br/>IP54/65</p> <p>An additional PT1000 probe not included in delivery.</p> | 30401056    |
|   |  | <p>An additional PT1000 probe for surface mounting, screwing in or contacting with customized cable-length can be ordered.</p> <p>( see rubric Z, Components / Replacement Parts )</p>   |             |

| SK03-TTFK   | Article   | Article Description  | Article No. |
|---|---|--|-------------|
| <b>SK03</b>   |   | Temperature probe integrated in box  |             |
| KNX, in-wall, indoor, IP20  |   | Document: 2303_ex_SK03-TTFK.pdf  |             |
| KNX Sensor / Controller<br>Temperature / Temperature / Humidity / Climate / Dewpoint control<br><br>Use: detecting and controlling room temperature in homes, hotels, offices, exhibition areas and schools.<br><br>Mounted using 2 spring clips in cable ring ( included ) for a ( 60 / 68 mm ) in-wall pattress.<br>Compatible with switching systems ( e.g. Gira, Merten in standard 55 mm ).<br><br>For in-wall mounting in dry interiors, IP20 |   |  |             |
|    | SK03-TTFK   | Plastic housing: white<br>Frame: 55 mm<br><br>Operating temperature: -25 .. +55 °C<br>Measured temperature range: -25 .. +55 °C<br>Measured humidity range: 10 .. 90% r.H.<br><br>An additional PT1000 probe not included in delivery.     | 30403201    |
|    | SK03-TTFK   | Plastic housing: anthrazit<br>Frame: 55 mm<br><br>Operating temperature: -25 .. +55 °C<br>Measured temperature range: -25 .. +55 °C<br>Measured humidity range: 10 .. 90% r.H.<br><br>An additional PT1000 probe not included in delivery. | 30403202    |
|    |  | An additional PT1000 probe for surface mounting, screwing in or contacting with customized cable-length can be ordered.<br><br>( see rubric Z, Components / Replacement Parts )  |             |

## KNX-Sensorik Temperatur Control

## TC

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

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

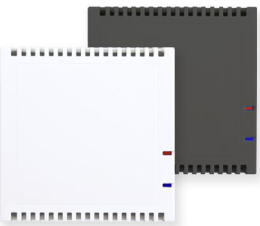
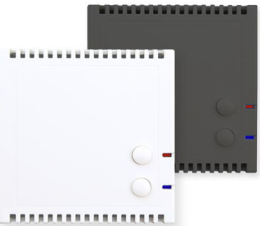
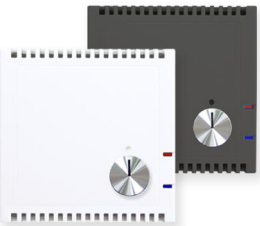
No auxiliary voltage necessary.

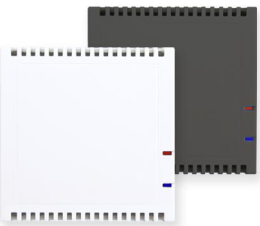
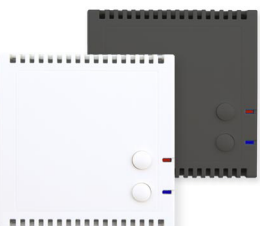
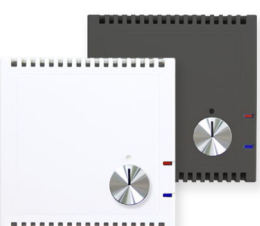
Product Data Base: **HLK305**

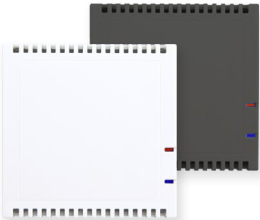
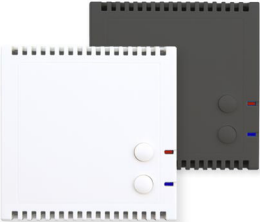
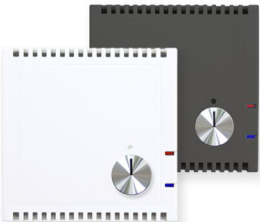
ETS Application:

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


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

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


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




| SK30  | Article            | Article Description  | Article No.  |
|---|--------------------|--|--|
| <b>SK30-TC-VOC</b>  |                    | Document: 2405_ex_SK30-TC-VOC.pdf  |  |
|    | SK30-TC-VOC        | KNX Sensor / Controller Temperature<br>VOC Concentration<br>Binary Inputs + Additional Functions<br><br>Operating temperature: 0 .. +50 °C<br>Measured temperature range: 0 .. +50 °C<br>Measured VOC range: 450 - 2000 ppm CO2 equivalent<br><br>IP20 Plastic housing<br>in 55mm standard size                    | weiß<br>30513361<br><br>ultra dark<br>grey<br>30513362 |
| <b>SK30-TC-VOC-PB</b>   |                    | Document: 2406_ex_SK30-TC-VOC-PB.pdf   |  |
|   | SK30-TC-VOC<br>-PB | KNX Sensor / Controller Temperature<br>VOC Concentration, Push Buttons<br>Binary Inputs + Additional Functions<br><br>Operating temperature: 0 .. +50 °C<br>Measured temperature range: 0 .. +50 °C<br>Measured VOC range: 450 - 2000 ppm CO2 equivalent<br><br>IP20 Plastic housing<br>in 55mm standard size      | weiß<br>30513371<br><br>ultra dark<br>grey<br>30513372 |
| <b>SK30-TC-VOC-R</b>  |                    | Document: 2409_ex_SK30-TC-VOC-R.pdf  |  |
|  | SK30-TC-VOC<br>-R  | KNX Sensor / Controller Temperature<br>VOC Concentration, Rotary Controller<br>Binary Inputs + Additional Functions<br><br>Operating temperature: 0 .. +50 °C<br>Measured temperature range: 0 .. +50 °C<br>Measured VOC range: 450 - 2000 ppm CO2 equivalent<br><br>IP20 Plastic housing<br>in 55mm standard size | weiß<br>30513351<br><br>ultra dark<br>grey<br>30513352 |

| SK07 | Article | Article Description | Article No. |
|------|---------|---------------------|-------------|
|------|---------|---------------------|-------------|


|  |            |   |          |
|--|------------|---|----------|
| SK07-TC-6B   |            | Document: 2430_ex_SK07-TC-6B.pdf  |          |
|  <p>SK07-TC-6B</p> <p>Art.Nr. 30510790<br/>www.arcus-eds.de</p> | SK07-TC-6B | <p>KNX Sensor / Controller Temperature<br/>6 button inputs<br/>Two switch inputs can be configured as outputs<br/>at 3VDC(4mA)</p> <p>Operating temperature Modul: -25 .. +80 °C<br/>Measured temperature range: -50 .. +400 °C</p> <p>IP20 plastic housing<br/>50 x 50 x 20 mm</p> <p>Delivery <b>without</b> temperature sensor</p> | 30510790 |


| SK10L | Article | Article Description | Article No. |
|-------|---------|---------------------|-------------|
|-------|---------|---------------------|-------------|

|   |            |   |          |
|---|------------|---|----------|
| SK10L-TC-L  |            | Document: 2450_ex_SK10L-TC-L  |          |
|  | SK10L-TC-L | <p>KNX Sensor / Controller Temperature<br/>with Brightness Sensor</p> <p>Operating temperature: -25 .. +80 °C<br/>Measured brightness range: 3 .. 220.000 lux<br/>Measured temperature range: -50 .. +400 °C</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 45 mm</p> <p>Delivery <b>without</b> temperature sensor</p> | 30514100 |


| SK10   | Article                       | Article Description  | Article No. |
|--|-------------------------------|--|-------------|
| <b>SK10-TC</b>   |                               | Document:  |             |
|   | SK10-TC                       | KNX Sensor / Controller Temperature<br><br>Operating temperature: -25 .. +80 °C<br>Measured temperature range: -50 .. +400 °C<br><br>IP54/65 Plastic housing<br>72 x 64 x 40 mm<br><br>Delivery <b>without</b> temperature sensor  | 30510000    |
| <b>SK10-TC-OFTF</b>  |                               | Document:  |             |
|    | SK10-TC-OFTF                  | KNX Sensor / Controller Temperature<br><br>Surface-Contacting probe, square, for flat surfaces.<br>The aluminium casing of the PT1000 temperature probe is attached to the surface with glue.<br><br>Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +105 °C<br>Connecting cable: PVC 1,5 m<br><br>IP54/65 Plastic housing<br>72 x 64 x 40 mm | 30511001    |
| <b>SK10-TC-HTF</b>   |                               | Document:  |             |
| KNX Sensor / Controller Temperature<br><br>With sleeve probe ( PT1000 ) for temperature detection in liquid and gaseous media using an immersion sleeve.<br><br>Probe: V4A stainless steel, sleeve sensor, round , rolled stamped ( protected from humidity ) 50 mm, Ø 6 mm.<br><br>IP54/65 Plastic housing<br>72 x 64 x 40 mm |                               |  |             |
|   | SK10-TC-HTF<br>PVC 1,5 m      | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -35 .. +105 °C<br>Connecting cable: PVC 1,5 m  | 30511002    |
|  | SK10-TC-HTF<br>Silicone 1,5 m | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -50 .. +180 °C<br>Connecting cable: Silicone 1,5 m   | 30511003    |
|  | SK10-TC-HTF<br>PTFE 1,5 m     | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -50 .. +250 °C<br>Connecting cable IP68: PTFE 1,5 m  | 30511055    |


| SK10-TC | Article | Article Description | Article No. |
|---------|---------|---------------------|-------------|
|---------|---------|---------------------|-------------|

| SK10-TC-ALTF1   |                                     | Document:  |          |
|---|-------------------------------------|--|----------|
| <p>KNX Sensor / Controller Temperature</p> <p>with axial probe tube for temperature detection of liquid and gaseous media on pipes and tubes.</p> <p>Installation on pipe with endless straps and metal tightener ( included ).<br/>Strap dimensions: Ø 13-92 mm ( 1/4 - 3" ), 300 mm<br/>( included in delivery )</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p> |                                     |  |          |
|   | SK10-TC<br>-ALTF1<br>PVC 1,5 m      | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -35 .. +105 °C<br>Connecting cable: PVC 1,5 m      | 30511004 |
|   | SK10-TC<br>-ALTF1<br>Silicone 1,5 m | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -35 .. +180 °C<br>Connecting cable: Silicone 1,5 m | 30511005 |


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


| SK10 | Article | Article Description | Article No. |
|------|---------|---------------------|-------------|
|------|---------|---------------------|-------------|

| SK10-TC-ATF2  |              | Document:  |          |
|---|--------------|--|----------|
|  | SK10-TC-ATF2 | KNX Sensor / Controller Temperature  | 30511007 |
|   |              | The PT1000 probe is enclosed in a V4A stainless steel sheath tube ( 30 mm, Ø 6 mm ). |          |
|   |              | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -50 .. +90 °C    |          |
|   |              | IP54/65 Plastic housing<br>72 x 64 x 40 mm   |          |


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


| SK10 | Article | Article Description | Article No. |
|------|---------|---------------------|-------------|
|------|---------|---------------------|-------------|

| SK10-TC-ETF1  |                             | Document:  |          |
|---|-----------------------------|--|----------|
| <p>KNX Sensor / Controller Temperature</p> <p>The PT1000 probe is in a brass sheath tube ( G 1/2", Ø 6 mm ), which is inside a brass immersion sleeve ( Ø 8 mm, max. pressure 10 bar).<br/>Used for temperature detection in liquid or gaseous media, in heating plants, circulation and climate technology.</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p> |                             |  |          |
|   | SK10-TC-ETF1<br>50mm brass  | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511013 |
|   | SK10-TC-ETF1<br>100mm brass | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511014 |
|   | SK10-TC-ETF1<br>150mm brass | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511015 |
|   | SK10-TC-ETF1<br>200mm brass | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511016 |
|   | SK10-TC-ETF1<br>250mm brass | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511017 |
|   | SK10-TC-ETF1<br>300mm brass | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511018 |
|   | SK10-TC-ETF1<br>400mm brass | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511019 |


| SK10-TC-ETF2  |                           | Document:  |          |
|---|---------------------------|--|----------|
| <p>KNX Sensor / Controller Temperature</p> <p>The PT1000 probe is in a V4A steel sheath tube ( G 1/2", Ø 6 mm ), which is inside a V4A immersion sleeve ( Ø 8 mm, max. pressure 40 bar).<br/>Used for temperature detection in liquid or gaseous media, in heating plants, circulation and climate technology.</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p> |                           |  |          |
|    | SK10-TC-ETF2<br>50mm V4A  | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511020 |
|   | SK10-TC-ETF2<br>100mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511021 |
|   | SK10-TC-ETF2<br>150mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511022 |
|   | SK10-TC-ETF2<br>200mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511023 |
|   | SK10-TC-ETF2<br>250mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511024 |
|   | SK10-TC-ETF2<br>300mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511025 |
|   | SK10-TC-ETF2<br>400mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511026 |

| SK10 | Article | Article Description | Article No. |
|------|---------|---------------------|-------------|
|------|---------|---------------------|-------------|


| SK10-TC-ETF3   |                           | Document:  |          |
|--|---------------------------|--|----------|
| <p>KNX Sensor / Controller Temperature</p> <p>The PT1000 probe is in a V4A steel sheath tube ( G 1/2", Ø 6 mm ), which is inside a V4A stainless steel immersion sleeve ( max. pressure 40 bar ).<br/>Installed using pipes and cases with the immersion sleeve ( included ).</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p> |                           |  |          |
|    | SK10-TC-ETF3<br>50mm V4A  | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511027 |
|  | SK10-TC-ETF3<br>100mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511028 |
|  | SK10-TC-ETF3<br>150mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511029 |
|  | SK10-TC-ETF3<br>200mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511030 |
|  | SK10-TC-ETF3<br>250mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511031 |
|  | SK10-TC-ETF3<br>300mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511032 |
|  | SK10-TC-ETF3<br>400mm V4A | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -30 .. +150 °C | 30511033 |


| SK10-TC-ETF7  |                       | Document:   |          |
|---|-----------------------|---|----------|
| <p>KNX Sensor / Controller Temperature</p> <p>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.<br/>Pipe length: 25 mm<br/>Pipe measurements: Ø 6 mm, plain tapered Ø 4 mm<br/>Protective material: stainless steel</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p> |                       |   |          |
|    | SK10-TC-ETF7<br>100mm | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -35 .. +150 °C<br>Probe: G 1/2", 100 mm | 30511034 |
|   | SK10-TC-ETF7<br>150mm | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -35 .. +150 °C<br>Probe: G 1/2", 150 mm | 30511035 |
|   | SK10-TC-ETF7<br>250mm | Operating temperature: -25 .. +80 °C<br>Measured temperature range: -35 .. +150 °C<br>Probe: G 1/2", 250 mm | 30511036 |

| SK10 | Article | Article Description | Article No. |
|------|---------|---------------------|-------------|
|------|---------|---------------------|-------------|

| SK10-TC-KTF1  |                           | Document:   |          |
|---|---------------------------|---|----------|
| <p>KNX Sensor / Controller Temperature</p> <p>The PT1000 probe is in a V4A stainless steel sheath tube ( Ø 6 mm ). Used in air ducts and heating and climate technology. The boxes are mounted onto air ducts with a plastic sleeve and 2 screws.</p> <p>Operating temperature.: -25 .. +80 °C</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p> |                           |   |          |
|   | SK10-TC-KTF1<br>50mm V4A  | Measured temperature range: -30 .. +150 °C<br>Probe: 50 mm  | 30511037 |
|   | SK10-TC-KTF1<br>100mm V4A | Measured temperature range: -30 .. +150 °C<br>Probe: 100 mm | 30511038 |
|   | SK10-TC-KTF1<br>150mm V4A | Measured temperature range: -30 .. +150 °C<br>Probe: 150 mm | 30511039 |
|   | SK10-TC-KTF1<br>200mm V4A | Measured temperature range: -30 .. +150 °C<br>Probe: 200 mm | 30511040 |
|   | SK10-TC-KTF1<br>250mm V4A | Measured temperature range: -30 .. +150 °C<br>Probe: 250 mm | 30511041 |
|   | SK10-TC-KTF1<br>300mm V4A | Measured temperature range: -30 .. +150 °C<br>Probe: 300 mm | 30511042 |
|   | SK10-TC-KTF1<br>400mm V4A | Measured temperature range: -30 .. +150 °C<br>Probe: 400 mm | 30511043 |

| SK10 | Article | Article Description | Article No. |
|------|---------|---------------------|-------------|
|------|---------|---------------------|-------------|

| SK10-TC-RPTF1   |               | Document:  |          |
|---|---------------|--|----------|
|  | SK10-TC-RPTF1 | <p>KNX Sensor / Controller Temperature</p> <p>Temperature probe PT1000 is in sheath tube.<br/>Installation in rooms with a high ceiling with a suspended sensor.</p> <p>Probe: 100 mm, M12 / 1,5 mm<br/>Operating temperature: -25 .. +80 °C<br/>Measured temperature range: -35 .. +105 °C<br/>Connecting cable: PVC 2 m</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p> | 30511050 |

| SK10-TC-RPTF2  |               | Document:   |          |
|--|---------------|---|----------|
|  | SK10-TC-RPTF2 | <p>KNX Sensor / Controller Temperature</p> <p>Temperature probe PT1000 is in a black plastic sphere ( Ø 50 mm )<br/>Dark radiation probe detects radiation and radiation heat.<br/>Installation in rooms with high ceilings with suspended sensor.</p> <p>Operating temperature: -25 .. +80 °C<br/>Measured temperature range: -30 .. +80 °C<br/>Connecting cable: PVC 2 m</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p> | 30511051 |

## KNX-Sensorik Temperatur Humidity Control

## THC

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

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

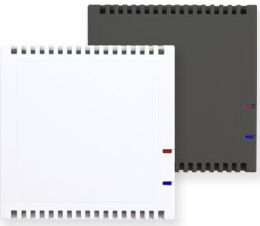

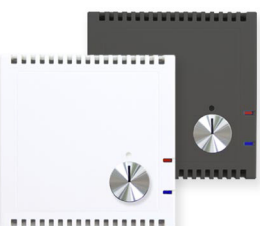
No auxiliary voltage necessary.

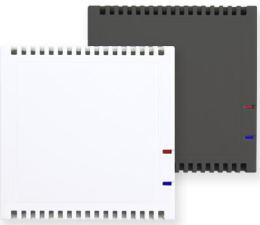
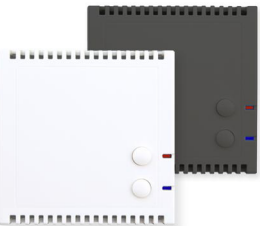
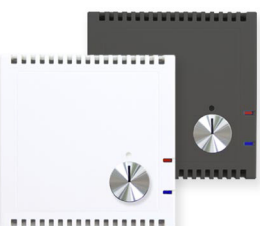
Product Data Base: **HLK305**


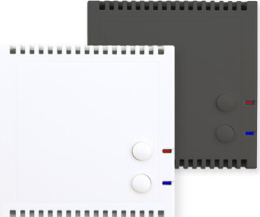
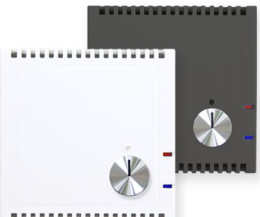
## ETS Application:

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


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

| SK30  | Article     | Article Description  | Article No.   |
|---|-------------|--|---|
| <b>SK30-THC</b>   |             | Document: 2501_ex_SK30-THC.pdf   |   |
|    | SK30-THC    | <p>KNX Sensor / Controller Temperature Humidity<br/>Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C<br/> Measured temperature range: -20 .. +80 °C<br/> Measured humidity range: 5 .. 95% r.H</p> <p>IP20 Plastic housing<br/>in 55mm standard size</p>                       | <p>white<br/>30531361</p> <p>ultra dark<br/>grey<br/>30531362</p> |
| <b>SK30-THC-PB</b>  |             | Document: 2502_ex_SK30-THC-PB.pdf  |   |
|    | SK30-THC-PB | <p>KNX Sensor / Controller Temperature Humidity<br/>Push Buttons<br/>Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C<br/> Measured temperature range: -20 .. +80 °C<br/> Measured humidity range: 5 .. 95% r.H</p> <p>IP20 Plastic housing<br/>in 55mm standard size</p>      | <p>white<br/>30531371</p> <p>ultra dark<br/>grey<br/>30531372</p> |
| <b>SK30-THC-R</b>   |             | Document: 2507_ex_SK30-THC-R.pdf   |   |
|  | SK30-THC-R  | <p>KNX Sensor / Controller Temperature Humidity<br/>Rotary Controller<br/>Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C<br/> Measured temperature range: -20 .. +80 °C<br/> Measured humidity range: 5 .. 95% r.H</p> <p>IP20 Plastic housing<br/>in 55mm standard size</p> | <p>white<br/>30531351</p> <p>ultra dark<br/>grey<br/>30531352</p> |


| SK30  | Article         | Article Description   | Article No.   |
|---|-----------------|---|---|
| <b>SK30-THC-CO2</b>   |                 | Document: 2503_ex_SK30-THC-CO2.pdf  |   |
|    | SK30-THC-CO2    | <p>KNX Sensor / Controller Temperature Humidity CO2 Concentration<br/>Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C<br/> Measured temperature range: -20 .. +60 °C<br/> Measured humidity range: 5 .. 95% r.H<br/> Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing<br/>in 55mm standard size</p>                    | <p>white<br/>30532361</p> <p>ultra dark<br/>grey<br/>30532362</p> |
| <b>SK30-THC-CO2-PB</b>  |                 | Document: 2504_ex_SK30-THC-CO2-PB.pdf   |   |
|   | SK30-THC-CO2-PB | <p>KNX Sensor / Controller Temperature Humidity CO2 Concentration, Push Button<br/>Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C<br/> Measured temperature range: -20 .. +60 °C<br/> Measured humidity range: 5 .. 95% r.H<br/> Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing<br/>in 55mm standard size</p>       | <p>white<br/>30532371</p> <p>ultra dark<br/>grey<br/>30532372</p> |
| <b>SK30-THC-CO2-R</b>   |                 | Document: 2508_ex_SK30-THC-CO2-R.pdf  |   |
|  | SK30-THC-CO2-R  | <p>KNX Sensor / Controller Temperature Humidity CO2 Concentration, Rotary Controller<br/>Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C<br/> Measured temperature range: -20 .. +60 °C<br/> Measured humidity range: 5 .. 95% r.H<br/> Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing<br/>in 55mm standard size</p> | <p>white<br/>30532351</p> <p>ultra dark<br/>grey<br/>30532352</p> |



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

| SK07 | Article | Article Description | Article No. |
|------|---------|---------------------|-------------|
|------|---------|---------------------|-------------|



|   |             |  |          |
|---|-------------|--|----------|
| SK07-THC-4B   |             | Document: 2530_ex_SK07-THC-4B.pdf  |          |
|  <p>SK07-THC-4B CE<br/>Art.Nr. 30530780<br/>www.arcus-eds.de</p> | SK07-THC-4B | <p>KNX Sensor / Controller Temperature Humidity<br/>6 button inputs<br/>Two switch inputs can be configured as outputs<br/>at 3VDC(4mA)</p> <p>Operating temperature Modul: -25 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 5 .. 95% r.H</p> <p>IP20 plastic housing<br/>50 x 50 x 20 mm</p> <p>Delivery <b>without</b> temperature/humidity sensor</p> | 30530780 |

| SK10L | Article | Article Description | Article No. |
|-------|---------|---------------------|-------------|
|-------|---------|---------------------|-------------|

|   |                 |  |          |
|---|-----------------|--|----------|
| SK10L-THC-L-AFF   |                 | Dokument: 2550_ex_SK10L-THC-L-AFF.pdf  |          |
|  | SK10L-THC-L-AFF | <p>KNX Sensor / Controller<br/>Temperature / Humidity / Climate<br/>with Brightness Sensor</p> <p>The probe is protected from dust by a poroplast<br/>protective coating.</p> <p>Operating temperature: -20 .. +80 °C</p> <p>Probe length: 45 mm</p> <p>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 5 .. 95% r.H<br/>Measured brightness range: 3 .. 220.000 lux</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 45 mm</p> | 30534153 |

| SK10  | Article      | Article Description   | Article No. |
|---|--------------|---|-------------|
| <b>SK10-THC-AFF</b>   |              | Document:   |             |
|    | SK10-THC-AFF | <p>KNX Sensor / Controller<br/>Temperature / Humidity / Climate</p> <p>The probe is protected from dust by a poroplast protective coating.<br/>Application: building automation, refrigeration, airconditioning and ventilation systems, clean rooms, greenhouses, etc.</p> <p>Probe length: 45 mm<br/>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 5 .. 95% r.H</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p>  | 30531053    |
| <b>SK10-THC-KFF</b>   |              | Document:   |             |
|  | SK10-THC-KFF | <p>KNX Sensor / Controller<br/>Temperature / Humidity / Climate</p> <p>The probe is protected from dust by a poroplast protective coating.<br/>Application: detection of temperature in air ducts, local regulation in heating systems for constant KNX valves or electrothermal valves, local air regulation.</p> <p>Installation: The boxes are fixed to the air duct with a plastic sleeve and two screws.</p> <p>Probe length: 230 mm<br/>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 5 .. 95% r.H</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p> | 30531057    |

| SK10 | Article | Article Description | Article No. |
|------|---------|---------------------|-------------|
|------|---------|---------------------|-------------|

|  |                           |  |          |
|--|---------------------------|--|----------|
| SK10-THC-RPFF  |                           | Document:  |          |
| <p>KNX Sensor / Controller<br/>Temperature / Humidity / Climate</p> <p>Application: building automation, refrigeration, airconditioning and clean room technology, greenhouses, halls with high ceilings.<br/>Installation in rooms with high ceilings with the sensor suspended from the ceiling.</p> |                           |  |          |
|    | SK10-THC<br>-RPFF         | <p>The probe is protected from dust by a poroplast protective coating and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm<br/>Connecting cable: PVC 2 m</p> <p>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 5 .. 95% r.H</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p>                    | 30531054 |
|   | SK10-THC<br>-RPFF<br>-MMF | <p>The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm<br/>Connecting cable: PVC 2 m</p> <p>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 5 .. 95% r.H</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p> | 30531056 |

## KNX-Sensorik Temperatur Temperatur Humidity Control

## TTHC

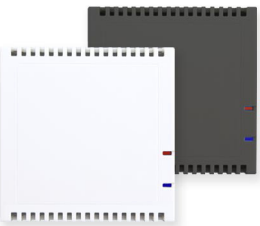
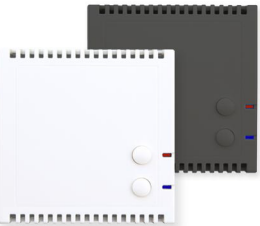
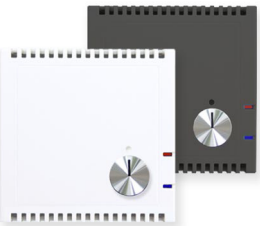
KNX sensors / controller with integrated KNX Bus Interface for detection and control of indoor air parameters.  
The sensor has a variety of other functions that can be found in the corresponding product page.


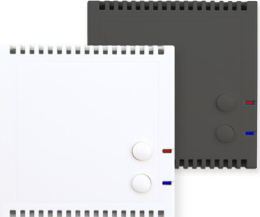
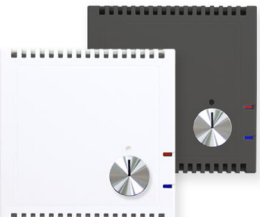
No auxiliary voltage necessary.

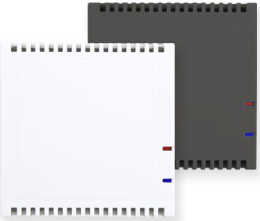
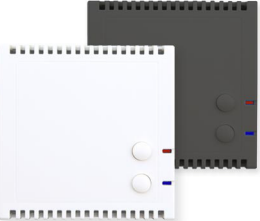
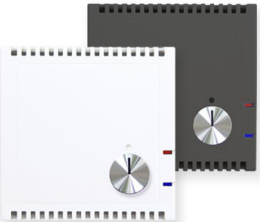
Product Data Base: **HLK305**

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


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

| SK30  | Article      | Article Description   | Article No.   |
|---|--------------|---|---|
| <b>SK30-TTHC</b>  |              | Document: 2601_ex_SK30-TTHC.pdf   |   |
|    | SK30-TTHC    | <p>KNX Sensor / Controller Temperature Humidity<br/>ext. Temperature ( PT1000 )<br/>Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C<br/> Measured temperature range: -20 .. +80 °C<br/> Measured humidity range: 5 .. 95% r.H<br/> Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP20 Plastic housing<br/>in 55mm standard size</p>                    | <p>white<br/>30541361</p> <p>ultra dark<br/>grey<br/>30541362</p> |
| <b>SK30-TTHC-PB</b>   |              | Document: 2602_ex_SK30-TTHC-PB.pdf  |   |
|   | SK30-TTHC-PB | <p>KNX Sensor / Controller Temperature Humidity<br/>ext. Temperature ( PT1000 ), Push Buttons<br/>Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C<br/> Measured temperature range: -20 .. +80 °C<br/> Measured humidity range: 5 .. 95% r.H<br/> Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP20 Plastic housing<br/>in 55mm standard size</p>      | <p>white<br/>30541371</p> <p>ultra dark<br/>grey<br/>30541372</p> |
| <b>SK30-TTHC-R</b>  |              | Document: 2607_ex_SK30-TTHC-R.pdf   |   |
|  | SK30-TTHC-R  | <p>KNX Sensor / Controller Temperature Humidity<br/>ext. Temperature ( PT1000 ), Rotary Controller<br/>Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +80 °C<br/> Measured temperature range: -20 .. +80 °C<br/> Measured humidity range: 5 .. 95% r.H<br/> Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP20 Plastic housing<br/>in 55mm standard size</p> | <p>white<br/>30541351</p> <p>ultra dark<br/>grey<br/>30541352</p> |


| SK30  | Article          | Article Description   | Article No.   |
|---|------------------|---|---|
| <b>SK30-TTHC-CO2</b>  |                  | Document: 2603_ex_SK30-TTHC-CO2.pdf   |   |
|    | SK30-TTHC-CO2    | <p>KNX Sensor / Controller Temperature Humidity CO2 Concentration<br/>ext. Temperature ( PT1000 ), Push Buttons<br/>Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C<br/>Measured temperature range: -20 .. +60 °C<br/>Measured humidity range: 5 .. 95% r.H<br/>Measured range ext. PT1000: -50 .. +400 °C<br/>Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing<br/>in 55mm standard size</p>      | <p>white<br/>30542361</p> <p>ultra dark<br/>grey<br/>30542362</p> |
| <b>SK30-TTHC-CO2-PB</b>   |                  | Document: 2604_ex_SK30-TTHC-CO2-PB.pdf  |   |
|   | SK30-TTHC-CO2-PB | <p>KNX Sensor / Controller Temperature Humidity CO2 Concentration<br/>ext. Temperature ( PT1000 ), Push Buttons<br/>Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C<br/>Measured temperature range: -20 .. +60 °C<br/>Measured humidity range: 5 .. 95% r.H<br/>Measured range ext. PT1000: -50 .. +400 °C<br/>Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing<br/>in 55mm standard size</p>      | <p>white<br/>30542371</p> <p>ultra dark<br/>grey<br/>30542372</p> |
| <b>SK30-TTHC-CO2-R</b>  |                  | Document: 2608_ex_SK30-TTHC-CO2-R.pdf   |   |
|  | SK30-TTHC-CO2-R  | <p>KNX Sensor / Controller Temperature Humidity CO2 Concentration<br/>ext. Temperature ( PT1000 ), Rotary Controller<br/>Binary Inputs + Additional Functions</p> <p>Operating temperature: -20 .. +60 °C<br/>Measured temperature range: -20 .. +60 °C<br/>Measured humidity range: 5 .. 95% r.H<br/>Measured range ext. PT1000: -50 .. +400 °C<br/>Measured CO2 range: 0 - 2000 ppm</p> <p>IP20 Plastic housing<br/>in 55mm standard size</p> | <p>white<br/>30542351</p> <p>ultra dark<br/>grey<br/>30542352</p> |




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

| SK07 | Article | Article Description | Article No. |
|------|---------|---------------------|-------------|
|------|---------|---------------------|-------------|

|   |              |  |          |
|---|--------------|--|----------|
| SK07-TTHC-4B  |              | Document: 2630_ex_SK07-TTHC-4B.pdf   |          |
|  | SK07-TTHC-4B | <p>KNX Sensor / Controller Temperature Humidity additional PT1000 connection<br/>6 button inputs<br/>Two switch inputs can be configured as outputs at 3VDC(4mA)</p> <p>Operating temperature Modul: -25 .. +80 °C</p> <p>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 5 .. 95% r.H<br/>Measured range PT1000: -50 .. +400 °C</p> <p>IP20 plastic housing<br/>50 x 50 x 20 mm</p> <p>Delivery <b>without</b> temperature/humidity sensor</p> | 30540780 |




| SK10L | Article | Article Description | Article No. |
|-------|---------|---------------------|-------------|
|-------|---------|---------------------|-------------|




|   |                  |  |          |
|---|------------------|--|----------|
| SK10L-TTHC-L-AFF  |                  | Dokument: 2650_SK10L-TTHC-L-AFF.pdf  |          |
|  | SK10L-TTHC-L-AFF | <p>KNX Sensor / Controller<br/>Temperature / Humidity / Climate<br/>with Brightness Sensor<br/>ext. Temperature ( PT1000 )</p> <p>The probe is protected from dust by a poroplast protective coating.</p> <p>Operating temperature: -20 .. +80 °C</p> <p>Probe length: 45 mm<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 5 .. 95% r.H<br/>Measured brightness range: 3 .. 220.000 lux<br/>Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 45 mm</p> | 30544153 |

| SK10   | Article   | Article Description  | Article No. |
|--|---|--|-------------|
| <b>SK10-TTHC-AFF</b>   |   | Document:  |             |
| KNX Sensor / Controller Temperature / Humidity<br>+ ext. Temperature ( PT1000 )<br><br>Application: building automation, refrigeration, airconditioning and ventilation technology, greenhouses etc. |   |  |             |
|   | SK10-TTHC-AFF   | <p>The temperature / humidity probe is protected from dust by a poroplast protective coating.</p> <p>Probe length: 45 mm<br/>           Operating temperature: -20 .. +80 °C<br/>           Measured temperature range: -20 .. +80 °C<br/>           Measured humidity range: 5 .. 95% r.H<br/>           Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP54/65 Plastic housing<br/>           72 x 64 x 40 mm</p> <p>An additional PT1000 probe not included in delivery.</p> | 30541053    |
|    |  | <p>An additional PT1000 probe for surface mounting, screwing in or contacting with customized cable-length can be ordered.</p> <p>( see rubric Z, Components / Replacement Parts )</p>   |             |

| SK10 | Article | Article Description | Article No. |
|------|---------|---------------------|-------------|
|------|---------|---------------------|-------------|

|  |   |   |          |
|--|---|---|----------|
| SK10-TTHC-RPFF   |   | Document:   |          |
| <p>KNX Sensor / Controller Temperature / Humidity<br/>+ ext. Temperature ( PT1000 )</p> <p>Application: building automation, refrigeration, airconditioning and ventilation technology, greenhouses,<br/>in halls with high ceilings, etc.</p> |   |   |          |
|    | SK10-TTHC<br>-RPFF  | <p>The probe is protected from dust by a poroplast protective coating and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm<br/>Connecting cable: PVC 2 m</p> <p>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 5 .. 95% r.H<br/>Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p> <p>An additional PT1000 probe not included in delivery.</p>                    | 30541054 |
|  | SK10-TTHC<br>-RPFF<br>-MMF  | <p>The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor.</p> <p>Probe length: 100 mm<br/>Connecting cable: PVC 2 m</p> <p>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 5 .. 95% r.H<br/>Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p> <p>An additional PT1000 probe not included in delivery.</p> | 30541056 |
|   |  | <p>An additional PT1000 probe for surface mounting, screwing in or contacting with customized cable-length can be ordered.</p> <p>( see rubric Z, Components / Replacement Parts )</p>  |          |

| SK10  | Article   | Article Description  | Article No. |
|---|---|--|-------------|
| SK10-TTHC-KFF   |   | Document:  |             |
|   | SK10-TTHC-KFF   | <p>KNX Sensor / Controller<br/>Temperature / Humidity / Climate<br/>+ ext. Temperature ( PT1000 )</p> <p>The probe is protected from dust by a poroplast protective coating.<br/>Application: detection of temperature in air ducts, local regulation in heating systems for constant KNX valves or electrothermal valves, local air regulation.</p> <p>Installation: The boxes are fixed to the air duct with a plastic sleeve and two screws.</p> <p>Probe length: 230 mm<br/>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -20 .. +80 °C<br/>Measured humidity range: 5 .. 95% r.H<br/>Measured range ext. PT1000: -50 .. +400 °C</p> <p>IP54/65 Plastic housing<br/>72 x 64 x 40 mm</p> <p>An additional PT1000 probe not included in delivery.</p> | 30541057    |
|  |  | <p>An additional PT1000 probe for surface mounting, screwing in or contacting with customized cable-length can be ordered.</p> <p>( see rubric Z, Components / Replacement Parts )</p>   |             |

## KNX-Aktorik Ventilation

## Application:

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


- Ventilation units **e<sup>2</sup>** und **e<sup>90</sup>** with heat recovery
- Ventilation units **Silvento FK, Ra 15-60** und **ACM-Modul** as pure exhaust fans



Up to 4 ventilation devices are powered by a module.

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

Product Data Base: **Arcus\_Lunos\_Ex.vd4**

| Ventilation  | Article                | Article Description   | Article No. |
|--|------------------------|---|-------------|
| <b>SK07-Lunos-Control4-IW</b>  |                        |   |             |
| KNX, in-wall, indoor, IP20   |                        | Document: 2900_ex_Lunos.pdf   |             |
|  | SK07-Lunos-Control4-IW | <p>The module enables the control of decentralized ventilation units with heat recovery from the company Lunos.</p> <p>Operation temperatur: -5 .. +45°C</p> <p>For in-wall mounting in dry interiors, IP20</p> | 65001001    |


## KNX-Actuators Heating

On-wall KNX controller for heating actuators

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

Additional supply of 24 .. 32 VDC necessary

Product Data Base: **Arcus-Ventil4\_v13.knxproj**

| Heating   | Article      | Article Description  | Article No. |
|---|--------------|--|-------------|
| <b>SK04-Ventil4</b>   |              |  |             |
| KNX, on-wall, indoor, IP54/65   |              | Document: 2910_ex_SK08_Ventil4.pdf   |             |
|  | SK08-Ventil4 | Control of up to 4 actuators or mixing valves<br>Additional voltage: 24 .. 32 VDC<br>Plastic housing: 121 x 70 x 25 mm<br>On-wall mounting in dry indoor applications<br>IP54/65 | 65102001    |

## KNX-Sensors Physical and Chemical Measurement Instrumentation

## S8


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



Product Data Base: **Arc\_S8.vd5**




Application Description:


Functions:


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


| T8   | Article | Article Description  | Article No. |
|--|---------|--|-------------|
| <b>SK08-T8</b>   |         | Multiple PT1000  |             |
| KNX, Indoor / Outdoor, IP54/65   |         | Document: 3100_ex_SK08-T8.pdf  |             |
| <p>KNX Controller 8 Channel Temperature for measurement and control of up to 8 temperatures.<br/>The temperatures are measured with the external PT1000 temperature probes.<br/>Different kind of probes can be mixed in one installation.</p> <p>For indoor / outdoor / damp room application, IP54/65</p> <p>Use case:<br/>Monitoring and control of temperatures in heating- / cooling- or informational applications.<br/>The temperature probes ( PT1000 ) are not included in delivery.</p> <p>The additional PT1000 Sensors for surface mounting, screwing in or contacting with customized cable-length can be ordered.<br/>( 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>Operating temperature: -20 .. +80 °C<br/>Measured temperature range: -30 .. +180 °C</p> <p>Measuring range extension possible to +400 °C<br/>( additional charge: 50,00 € )</p> <p>Plastic housing: 115 x 65 x 55 mm<br/>For indoor / outdoor and damp room<br/>IP54/65</p> <p>Without temperature probes</p> | 30801000    |



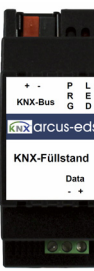

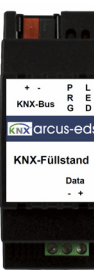
| WAQ   | Article      | Article Description   | Article No. |
|---|--------------|---|-------------|
| <b>SK08-WAQ</b>   |              | Water quality — pH, ORP   |             |
| KNX, Indoor / Outdoor, IP54/65  |              | Document: 3200_ex_SK08-WAQ.pdf  |             |
| KNX Sensor / Controller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


| CO2-TF   | Article            | Article Description  | Article No. |
|--|--------------------|--|-------------|
| <b>X-S8-CO2-TF</b>   |                    | CO2 / temperature / humidity / climate   |             |
| KNX, Indoor, IP20  |                    | Document: 3300_ex_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:<br/>Monitoring and control of CO2-concentration and air quality in offices, conference rooms, hotels, schools, workspaces etc.<br/>Monitoring and control of the climate in indoor applications.</p> <p>Auxiliary power necessary: 9 .. 30 VDC / 250 mW</p> |                    |  |             |
|   | AE<br>-S8-CO2-TF   | <p>Metal housing: 82 x 82 x 8 mm with bevel<br/>Aluminium sandblasted, anodized</p> <p>Measured temperature range: -25 .. +55 °C<br/>Measured humidity range: 10 .. 90% r.H.<br/>CO2 measuring range: 0 .. 5000 ppm</p> <p>Magnetic fixture with metal frame ( included ) for<br/>( 60 / 68 mm ) in-wall pattress mounting<br/>IP20</p>            | 30803040    |
|    | AW<br>-S8-CO2-TF   | <p>Metal housing: 82 x 82 x 8 mm with bevel<br/>Aluminium sandblasted, white powder coated</p> <p>Measured temperature range: -25 .. +55 °C<br/>Measured humidity range: 10 .. 90% r.H.<br/>CO2 measuring range: 0 .. 5000 ppm</p> <p>Magnetic fixture with metal frame ( included ) for<br/>( 60 / 68 mm ) in-wall pattress mounting<br/>IP20</p> | 30803041    |
|   | SK04<br>-S8-CO2-TF | <p>Plastic housing: 121 x 70 x 25 mm</p> <p>Measured temperature range: -10 .. +55 °C<br/>Measured humidity range: 10 .. 90% r.H.<br/>CO2 measuring range: 0 .. 5000 ppm</p> <p>On-wall mounting in dry indoor applications<br/>IP20</p>   | 30803050    |

| GLBS  | Article           | Article Description  | Article No. |
|---|-------------------|--|-------------|
| <b>SK08-GLBS- MES</b>   |                   | Global radiation   |             |
| KNX, Indoor / Outdoor, IP54/65  |                   | Document: 3400_ex_SK08-GLBS.pdf  |             |
|  | SK08-GLBS<br>-MES | <p>KNX - Global radiation sensor, silicon pyranometer<br/>pyranometer and Busmodul included</p> <p>Range: 0 .. 1800 W/m<sup>2</sup><br/> Accuracy: 5%<br/> Spectral range: 400 .. 1100 nm<br/> Temperature range: -40 .. +65°C</p> <p>Drift: typical 2% p.a.<br/> With bubble level for exact leveling</p> <p>UV-resistant plastic housing ( Sensor only )<br/> 115 x 65 x 55 mm<br/> Connection cable length: 1 m</p> | 30804001    |

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

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

| F   | Article  | Article Description   | Article No. |
|---|--|---|-------------|
| X-S8-F  |  | Ultrasonic fill level measurement system  |             |
| KNX, Indoor / Outdoor, IP54/65  |  | Document: 3700_ex_X-S8-F.pdf  |             |
|    | <p>The ultrasonic level sensor system LevelJET from ProJET evaluates the levels in reservoirs of many construction types.</p> <p>Minimal and maximal levels can be set on site. The bus coupling unit enables to use the values in the KNX-Bus.</p> <p>Additional supply 9 .. 12 VDC / 35 mA<br/>Wall power supply included in delivery.<br/>Data cable: 2,5m</p> <p>Connection cable UNI-300 sensor head: 4m<br/>Other lengths available ( 0,96€ / m ) ( can not be retrofitted )<br/>As of 25m with a special sensor head</p> <p>There are two different measurement ranges available with two different housings.</p> |   |             |
|   | SK01-S8-F<br>-ST   | SK01 plastic housing<br>72 x 64 x 40 mm<br><br>IP54/65<br><br>Mounted with 2 screws onto the wall.<br><br>Measuring range: <b>0,15 .. 2,5 m</b> | 30807001    |
|  | REG-S8-F<br>-ST  | DIN Rail mounted housing<br>2 units width ( 35 mm )<br><br>IP20<br><br>Measuring range: <b>0,15 .. 2,5 m</b>                                    | 30807002    |
|  | SK01-S8-F<br>-HR-6   | SK01 plastic housing<br>72 x 64 x 40 mm<br><br>IP54/65<br><br>Mounted with 2 screws onto the wall.<br><br>Measuring range: <b>0,75 .. 6 m</b>   | 30807011    |
|  | REG-S8-F<br>-HR-6  | DIN Rail mounted housing<br>2 units width ( 35 mm )<br><br>IP20<br><br>Measuring range: <b>0,75 .. 6 m</b>                                      | 30807012    |

| AN2   | Article  | Article Description   | Article No. |
|---|----------|---|-------------|
| <b>SK08-AN2</b>   |          | Analog modul 2-fold   |             |
| KNX, Indoor / Outdoor, IP54/65  |          | Document: 3810_ex_SK08-AN2.pdf  |             |
|  | SK08-AN2 | KNX Dataconverter / controller for monitoring and control of two analog voltages.<br>Input range 0 .. 12 VDC.<br><br>Plastic housing: 115 x 65 x 55 mm<br>IP54/65 | 30806202    |

A

## KNX Funktion Module / Gateways

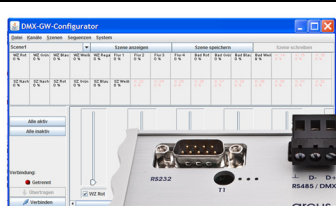
The KNX-FM Modul is a logic module which is used in KNX Systems. It is characterized by its free programming capabilities. Programming is done in the forth language and is executed by an internal interpreter. The 50 MHz Arm processor allows fast 32-bit integer operations and 64-bit floating point calculations. 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](http://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 .. +45 °C                                     |
| KNX-load:              | 20 .. 32 VDC / 150 mW                            |
| Power supply:          | 9 .. 30 VDC / 100 mA                             |
| Programming:           | Software ArcSuite via USB                        |
| Data rates:            | RS232 250.0 kBaud max.<br>RS485 115.2 kBaud max. |

| KNX Funktion Module   | Article                    | Article Description   | Article No. |
|---|----------------------------|---|-------------|
| <b>KNX-FM KNX-GW-RS232-RS485</b>  |                            |   |             |
| KNX-FM  |                            | Document: 4100_ex_KNX-FM.pdf  |             |
|  | KNX-FM                     | <p>The KNX-FM is a free programmable logic module with an KNX-Interface. It is housed in a 107 mm wide DIN Rail mounted housing.</p> <p>Programming is done by the Program ArcSuite.</p> <p>Free download at <a href="http://www.arcus-eds.com">www.arcus-eds.com</a></p>   | 40020186    |
| KNX-GW-RS232-RS485  |                            | Document: 4300_ex_KNX-GW-RS232-RS485.pdf  |             |
|  | KNX-GW<br>-RS232<br>-RS485 | <p>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.</p> <p>Parametrization is done by the dedicated Program RS232-Configurator.</p> <p>Free download at <a href="http://www.arcus-eds.com">www.arcus-eds.com</a></p> | 40220186    |

| KNX Funktion Module   | Article        | Article Description  | Article No. |
|---|----------------|--|-------------|
| KNX-FM KNX-GW-DMX   |                |  |             |
| KNX   |                | Document: 4200_ex_KNX-GW-DMX.pdf   |             |
|  | KNX-GW-DMX     | <p>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.</p>                       | 40120186    |
|  | KNX-GW-DMX 2TE | <p>Parametrization is done by the dedicated program DMX-Configurator.</p> <p>Free download at <a href="http://www.arcus-eds.com">www.arcus-eds.com</a></p> | 40120182    |

## KNX-GW-MBUS

## KNX Gateway M-Bus

## Product Group 1

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

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

Product Data Base: **MBUS\_v4.vd5**


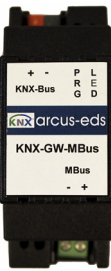

KNX Readable Data: For each M-Bus device

- Device Date
- Secondary Address

Per M-Bus data point ( 32 data points ) as:

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



| KNX-GW-MBUS   | Article             | Article Description  | Article-No. |
|---|---------------------|--|-------------|
| KNX   |                     | Document: 4410_ex_MBUS-SK01-REG.pdf  |             |
|  | KNX-GW-MBUS<br>SK01 | M-Bus Gateway for up to 3 M-Bus devices<br>with KNX terminal block<br><br>SK01 plastic housing: 72 x 64 x 40 mm<br><br>IP54/65   | 60400001    |
|  | KNX-GW-MBUS<br>REG  | M-Bus Gateway for up to 3 M-Bus devices<br>with KNX terminal block<br><br>DIN Rail mounted housing<br>2 units width ( 35 mm )<br><br>IP20  | 60400002    |
| KNX   |                     | Document: 4420_ex_MBUS-SK08.pdf  |             |
|  | KNX-GW-MBUS<br>SK08 | M-Bus Gateway for up to 3 M-Bus devices<br>with KNX terminal block<br><br>Each M-Bus device with its own Screw-Type<br>Terminal for M-Bus ID independent device<br>identification.<br><br>Plastic housing: 115 x 65 x 55 mm<br><br>IP54/65 | 60400008    |

## KNX Smart Metering

**Impuls Counter IMPZ**

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

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

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

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

**In Home Water Meters WZ-M**

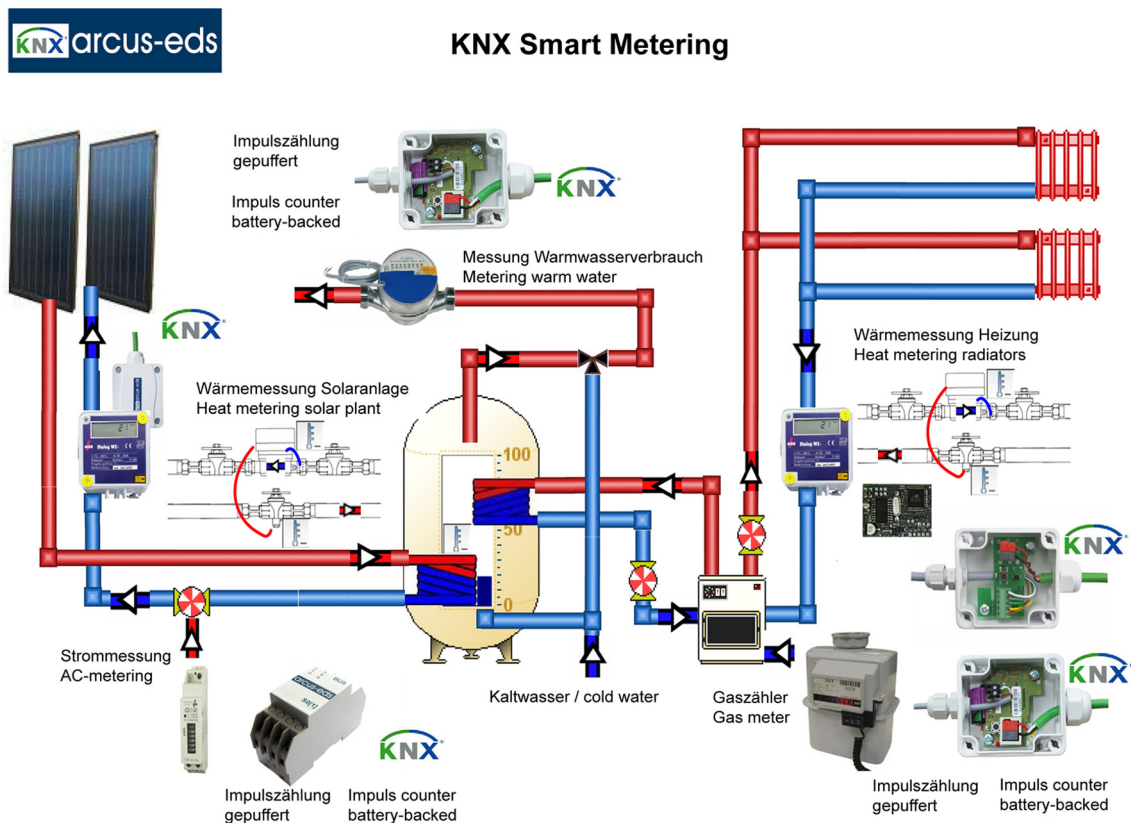
The in home water meter is a package of the calibrated water meter „WZ-M“ from NZR and the impuls counting unit SK01-IMPZ1 from Arcus-EDS GmbH. The meter is approved by the PTB.

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

**Heat Quantity Meter WMZ**

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

Product Data Base: **IMPZx.vd4**

KNX Readable Data:

- Serial number
- Accumulated consumption
- Current flow rate/consumption rate
- 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



| KNX-IMPZ1   | Article            | Article Description  | Article No. |
|---|--------------------|--|-------------|
| KNX   |                    | Document: 5100_ex_IMPZ1.pdf  |             |
|  | KNX-IMPZ1<br>-SK01 | 1 Channel S0 counter module<br>with KNX interface<br><br>SK01 plastic housing: 72 x 64 x 40 mm<br><br>IP54/65            | 60201101    |
|  | KNX-IMPZ1<br>-REG  | 1 Channel S0 counter module<br>with KNX interface<br><br>DIN Rail mounted housing<br>2 units width ( 35 mm )<br><br>IP20 | 60201102    |

## KNX-IMPZ2

## Impuls Counting Module KNX-IMPZ2

## Product Group 1

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


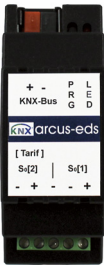
The counting unit is designed to be used with a S0-Interface ( according EN 43864 ) but can also be used with other impuls outputs with a potential free contact.

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.

Product Data Base: **IMPZx.vd4**

KNX Readable Data:

- Serial number
- Accumulated consumption
- Current flow rate/consumption rate
- 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

| KNX-IMPZ2   | Article            | Article Description  | Article No. |
|---|--------------------|--|-------------|
| KNX   |                    | Document: 5200_ex_IMPZ2.pdf  |             |
|  | KNX-IMPZ2<br>-SK01 | 2 Channel S0 counter module<br>with KNX interface<br><br>SK01 plastic housing: 72 x 64 x 40 mm<br><br>IP54/65            | 60201201    |
|  | KNX-IMPZ2<br>-REG  | 2 Channel S0 counter module<br>with KNX interface<br><br>DIN Rail mounted housing<br>2 units width ( 35 mm )<br><br>IP20 | 60201202    |

## KNX-GW-MBUS

## KNX Gateway M-Bus

## Product Group 1

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

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

Product Data Base: **MBUS\_v4.vd5**


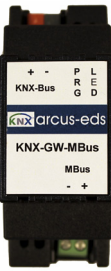

KNX Readable Data: For each M-Bus device

- Device Date
- Secondary Address

Per M-Bus data point ( 32 data points ) as:

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



| KNX-GW-MBUS   | Article             | Article Description  | Article-No. |
|---|---------------------|--|-------------|
| KNX   |                     | Document: 4400_ex_KNX-GW-MBUS.pdf  |             |
|  | KNX-GW-MBUS<br>SK01 | M-Bus Gateway for up to 3 M-Bus devices<br>with EIB/KNX terminal block<br><br>SK01 plastic housing: 72 x 64 x 40 mm<br><br>IP54/65   | 60400001    |
|  | KNX-GW-MBUS<br>REG  | M-Bus Gateway for up to 3 M-Bus devices<br>with EIB/KNX terminal block<br><br>DIN Rail mounted housing<br>2 units width ( 35 mm )<br><br>IP20  | 60400002    |
|  | KNX-GW-MBUS<br>SK08 | M-Bus Gateway for up to 3 M-Bus devices<br>with KNX terminal block<br><br>Each M-Bus device with its own Screw-Type<br>Terminal for M-Bus ID independent device<br>identification.<br><br>Plastic housing: 115 x 65 x 55 mm<br><br>IP54/65 | 60400008    |

## KNX-IMPZ-WZ-M

## In Home Water Meters    Modularis WZ-M

KNX

Document: 5300\_ex\_WZ-M.pdf



Product Data Base:

**IMPZx.vd4**

KNX Readable Data:

Serial number  
 Accumulated volume in l or m<sup>3</sup>  
 Current flow rate in l or m<sup>3</sup>/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

IP54/65

Mounted with 2 screws onto the wall.

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

Other water meters, technical data and companion dimensions are available at NZR. [www.nzr.de](http://www.nzr.de)

The NZR-article no. equals the second part of our article no.

Prices on request.



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

## KNX-WMZ-WZ-HY

## Heat Quantity Meter WZ-HY

KNX

Document: 5400\_ex\_WMZ.pdf



Product Data Base:

ARC\_WMZ.VD2

KNX Readable Data:

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

Temperature range:

0 .. 120 °C

Connection box:

SK01 plastic housing 72 x 64 x 40 mm

IP54/65

Mounted with 2 screws onto the wall.

| WZ-HY Technical Data   | Temperature Probe | Article No.    |
|--|-------------------|----------------|
| <b>Nominal Flow Rate</b> 0,6 m <sup>3</sup> /h<br><b>Nominal Diameter</b> 15 mm<br><b>Maximum Flow Rate</b> 1,2 m <sup>3</sup> /h<br><b>Installation Length</b> 110 mm | dry probe         | 60101-85373106 |
|  | wet probe         | 60101-85473106 |
| <b>Nominal Flow Rate</b> 1,5 m <sup>3</sup> /h<br><b>Nominal Diameter</b> 15 mm<br><b>Maximum Flow Rate</b> 3 m <sup>3</sup> /h<br><b>Installation Length</b> 110 mm   | dry probe         | 60101-85373115 |
|  | wet probe         | 60101-85473115 |
| <b>Nominal Flow Rate</b> 2,5 m <sup>3</sup> /h<br><b>Nominal Diameter</b> 20 mm<br><b>Maximum Flow Rate</b> 5 m <sup>3</sup> /h<br><b>Installation Length</b> 130 mm   | dry probe         | 60101-85373125 |
|  | wet probe         | 60101-85473125 |





Other heat meters, technical data and companion dimensions as well as informations about mounting kits and adapters are available at NZR. [www.nzr.de](http://www.nzr.de)

The NZR-article no. equals the second part of our article no.

Prices on request.






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




| KNX-GW-DMX   |                |  |          |
|--|----------------|--|----------|
| KNX  |                | Document: 4200_ex_KNX-GW-DMX.pdf   |          |
|   | KNX-GW-DMX     | <p>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.</p>                       | 40120186 |
|  | KNX-GW-DMX 2TE | <p>Parametrization is done by the dedicated program DMX-Configurator.</p> <p>Free download at <a href="http://www.arcus-eds.com">www.arcus-eds.com</a></p> | 40120182 |



## KNX-System Devices

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

## Components for HVAC Sensor

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





## Components for HVAC Sensor

| Article   |                                | Article Description   |          | Article No. |  |
|---|--------------------------------|---|----------|-------------|--|
| Pipe Feed Probe PT1000 IP54/65  |                                |   |          |             |  |
|    | ALTF1<br>PT1000<br>PVC         | Feed temperature / pipe feed probe<br>Operating range: -35 .. +105 °C<br>Cable length: PVC 1,5 m  |          | 90100004    |  |
|   | ALTF1<br>PT1000<br>Silicone    | Feed temperature / pipe feed probe<br>Operating range: -35 .. +180 °C<br>Cable length: Silicone 1,5 m   |          | 90100005    |  |
|    | ALTF2<br>PT1000                | Feed temperature / pipe feed probe<br>in plastic housing with contacting probe<br>( PT1000 ) on the rear side of the terminal box.<br><br>Operating range: -30 .. +110 °C |          | 90100006    |  |
|   |                                |   |          |             |  |
| Outdoor / Damp Room Temperature Probe PT1000 IP54/65                                |                                |   |          |             |  |
|  | ATF2<br>PT1000                 | Outdoor / damp room temperature probe<br>in plastic housing ( PT1000 )<br><br>Operating range: -50 .. +90 °C  |          | 90100007    |  |
|   |                                |   |          |             |  |
| Screw-In Temperature Probe PT1000 IP54/65   |                                |   |          |             |  |
|  | ESTF<br>PT1000-50<br>PVC       | G 1/2" 50 mm V4A<br>Operating range: -35 .. +105 °C<br>Cable length: PVC 1,5 m  | 90100008 |             |  |
|   | ESTF<br>PT1000-100<br>PVC      | G 1/2" 100 mm V4A<br>Operating range: -35 .. +105 °C<br>Cable length: PVC 1,5 m   | 90100009 |             |  |
|   | ESTF<br>PT1000-50<br>Silicone  | G 1/2" 50 mm V4A<br>Operating range: -50 .. +180 °C<br>Cable length: Silicone 1,5 m   | 90100010 |             |  |
|   | ESTF<br>PT1000-100<br>Silicone | G 1/2" 100 mm V4A<br>Operating range: -50 .. +180 °C<br>Cable length: Silicone 1,5 m  | 90100011 |             |  |




## Components for HVAC Sensor

| Article   | Article Description    | Article No.  |          |
|---|------------------------|--|----------|
| <b>Ceiling Mounted Temperature Probe PT1000</b>                                     |                        |  |          |
|    | DTF<br>PT1000          | Ceiling mounted temperature probe<br><br>Operating range: -20 .. +90 °C<br>Cable length: ca. 135 mm  | 90100012 |
| <b>Pendulum Room Probe for Temperature PT1000 IP54/65</b>                           |                        |  |          |
|   | RPTF1<br>PT1000        | Pendulum room probe for temperature PT1000<br>in protecting tube<br><br>Probe: 100 mm, M12 / 1,5 mm<br><br>Operating range: -30 .. +75 °C<br>Cable length: PVC 1,5 m   | 90100050 |
| <b>Pendulum Room Probe for Temperature PT1000 IP54/65</b>                           |                        |  |          |
|  | RPTF2<br>PT1000        | Pendulum room probe for temperature PT1000.<br>in black plastic sphere ( Ø 50 mm ) for the<br>acquisition of the temperature caused by radiant<br>heat.<br><br>Operating range: -30 .. +80 °C<br>Cable length: PVC 1,5 m | 90100051 |
| <b>Cable</b>  |                        |  |          |
| <b>The Necessary Probe Cable Lengths are Manufactured on Demand.</b>                |                        |  |          |
|  | AN-PVC-<br>-T2x025     | PVC LiYY<br>2 x 0,25 mm <sup>2</sup> per meter   | 90200220 |
|   | AN-Silicone<br>-T2x025 | Silicone SiHF<br>2 x 0,25 mm <sup>2</sup> per meter  | 90200221 |
|   | AN-PTFE<br>-T2x100     | PTFE Li-6Y6Y-OZ<br>2 x 1 mm <sup>2</sup> per meter   | 90200223 |



## Components for HVAC Sensor

| Article  | Article Description       | Article No.   |          |
|--|---------------------------|---|----------|
| <b>Pendulum Room Probe for Temperature and Humidity IP54/65</b>                        |                           |   |          |
|       | RPFF<br>( Sensirion )     | Pendulum room temperature / humidity probe<br>with plastic sinter filter<br><br>Probe: 100 mm<br>Operating temperature: -20 .. +55 °C<br>Storage temperature: -25 .. +80 °C<br>Measured temperature range: -20 .. +80 °C<br>Measured humidity range: 5 .. 95% r.H.<br><br>Cable length: PVC 2 m                           | 90100054 |
| <b>Pendulum Room Probe for Temperature and Humidity ( Condensation Proof ) IP54/65</b> |                           |   |          |
|      | RPFF-MMF<br>( Sensirion ) | Pendulum room humidity / temperature probe<br>with metal membrane filter<br>( condensation proof )<br><br>Probe: 100 mm<br>Operating temperature: -20 .. +55 °C<br>Storage temperature: -25 .. +80 °C<br>Measured temperature range: -20 .. +80 °C<br>Measured humidity range: 5 .. 95% r.H.<br><br>Cable length: PVC 2 m | 90100056 |
| <b>Temp-probe PT1000, assembled for SK07</b>   |                           |   |          |
|     | PT1000-SK07               | Measured temperature range: -50 .. +150 °C<br>Cable length: PVC 10 cm   | 99101071 |
| <b>Temp-Humid probe, assembled for SK07</b>  |                           |   |          |
|     | SHT71-SK07                | Measured temperature range: -25 .. +55 °C<br>Measured humidity range: 5 .. 95% r.H.<br>Cable length: PVC 12 cm  | 99171071 |

## Components for the KNX Measuring System S8

| Article   | Article Description                      | Article No.  |          |
|---|--|--|----------|
| Water Quality Probe pH and ORP for WAQ  |  |  |          |
|    | WAQ Probe set single-rod measuring cells | Standard probes for pH & ORP to use with SK08-WAQ  | 91110020 |
| Global Radiation Probe for GLBS   |  |  |          |
|   | GLBS -DAV6450                            | Global radiation sensor element for the SK08-GLBS  | 91110021 |
|   | Mountkit-GLBS                            | Mounting kit for GLBS sensor   | 91110022 |
| Soil Moisture Probe Watermark® WMT  |  |  |          |
|  | WMT                                      | Watermark® -soil moisture probe with temperature sensor element with underground cable ( length 5 m )                            | 91100000 |
|   | AN-WMT                                   | Underground cable for WMT ( each additional meter )  | 90200500 |
| Connection cable for Ultrasonic fill level measurement system.                      |  |  |          |
|  | AN-LevelJET                              | Connection cable for Ultrasonic fill level measurement system.<br>( each additional meter )<br><br><b>can not be retrofitted</b> | 90200226 |

## Components for Touch\_IT C3

| Article   | Article Description  | Article No. |  |
|---|--|-------------|--|
| <b>Temperature Sensor 1 Wire</b>  |  |             |  |
|  | <b>1 Wire DTF</b><br><br>Ceiling mounted temperature probe<br><br>Operating temperature: -55 .. +125 °C<br>Accuracy: ± 0,5 °C<br><br>Cable length: PVC 2,5 m | 90100013    |  |
|  | <b>1 Wire HTF</b><br><br>Sleeve temperature probe<br><br>Operating temperature: -55 .. +125 °C<br>Accuracy: ± 0,5 °C<br><br>Cable length: Silicone 3 m       | 90100014    |  |

A

## Imprint

Editor: Arcus-EDS GmbH, Rigaer Str. 88, 10247 Berlin

Responsible for the contents: Hjalmar Hevers, Reinhard Pegelow

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