





KNX Components for Building Automation

Catalogue

arcus-eds

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C

HLK
305
THC

C

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Standard Housings Arcus-EDS

Plastic Housings

SK07

In-wall
IP20
Plastic
Measurements: 50 x 50 x 20 mm
Colour: black



SK07-ModBUS

SK08

On-wall
IP54/65
Plastic
Measurements: 115 x 65 x 55 mm
Colour: grey



SK08-T8

SK10 / SK10L

On-wall
IP54/65
Plastic
Measurements: 72 x 64 x 40 mm
Colour SK10: white
Colour SK10L: white / transparent



SK10-TC-ATF



SK10L-TTHC-AFF

SK20

On-wall
IP20
Plastic
Measurements: 71 x 71 x 25 mm
Colour: white



SK20-THC-2B

SK30

Plastic
IP20
Measurements:
55 x 55 x 13 mm
for flush-mounted box (68mm)
Colour: anthracite / white



SK30-TC-PB



Flush-mounting on support ring SK30

REG Housings

Plastic / Aluminium
IP20
Measurements: 2TE (35 x 90 x 63 mm)
6TE (107 x 75 x 31 mm)
Colour: silver / black

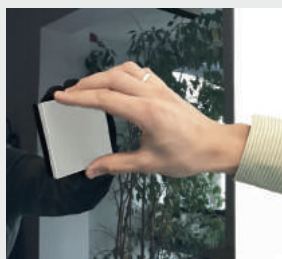


KNX-GW2-DMX 6TE



KNX-GW2-IP-2TE

Aluminium Housings in the Design of Arcus-EDS



- Flush-mounting with special frame
- Easy handling
- Rotation and locking screw

3.5" Display in Aluminium Frame

Section A Visualization and Control in KNX Systems

Measurements aluminium frame Touch_IT:

80 x 80 x 12 mm (Touch_IT SMART)

80 x 80 x 8 mm (Touch_IT C3 / Touch_IT M)

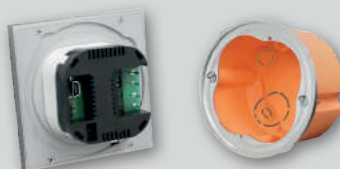
80 x 120 x 8 mm (Touch_IT L)

IP20

Installation with support ring for flush-mounted box (60/68 mm)



Touch_IT C3



KNX LED in Aluminium Frame

Section H KNX Lighting

Measurements Aluminium Frame (round):

Ø 84 mm

Measurements Aluminium Frame (square):

80 x 80 mm

IP20

Installation with support ring for flush-mounted box (60/68 mm)



KNX Sensor System for HVAC Applications NEO Aluminium Frame

Section C KNX Sensor Systems for HVAC Applications
- Application HLK 305

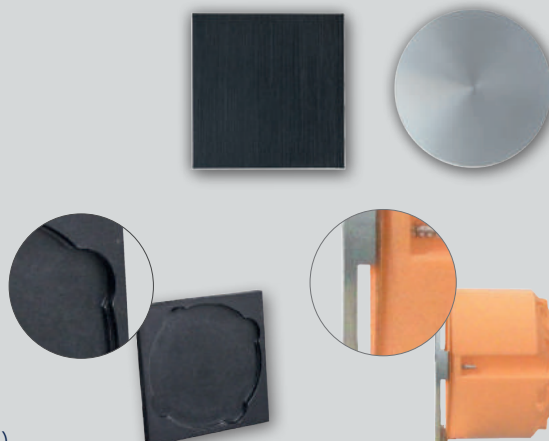
Measurements Aluminium Frame (round):

Ø 84 x 6 mm

Measurements Aluminium Frame (square):

80 x 80 x 6 mm

Installation with support ring for flush-mounted box (60/68 mm)



Touch_IT 3.5" TFT Colour Display with Touchscreen in Aluminium Frame

Touch_IT SMART



Housing 80 x 80 x 12 mm

external micro usb slot

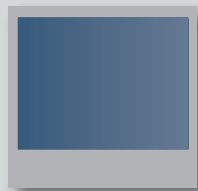
mini USB connection



12 mm depth

integrated infrared temperature sensor

Touch_IT C3



Housing 80 x 80 x 8 mm



8 mm depth

micro SD slot in the housing

Touch_IT M



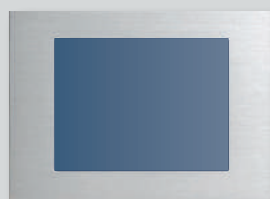
Housing 80 x 80 x 8 mm



mini USB connection

connection for external temperature sensor

Touch_IT L



Housing 80 x 120 x 8 mm

Touch_IT C3 IP 65



Touch_IT Functional Overview

The 3.5" TFT colour display with touchscreen serves for visualization and control in KNX Systems.

- Switching and dimming of lighting
- RGB control with colour picker
- Display of the control status in the building
- Control of various devices in the KNX-Bus
- Control of shutters / blinds
- Acoustic and optic alarm functions
- Alarm display of motion detectors or object states as plain text
- Setting and display of heating regulation parameters
- Control of multi room audio-systems
- Pretending of RTC-setpoints
- Weekly clock timer
- Astronomic clock timer for sunset/sunrise driven controls
- Data logging and charts on display
- Internal scenes with 32 action objects and programmable delays
- Logic functions can be implemented in a scripting language
- Separate display page for alarm settings
- 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 colour display with touchscreen 320 x 240 RGB (256K colours)
- 200MHz 32-Bit ARM processor
- MicroSD Slot (for SD / SDHC cards) (at Touch_IT SMART accessible from the outside)
- Mini USB Port
- Linux operating system
- Optional temperature sensor connection: 1-Wire (C3, M, L & Q)
- Integrated infrared temperature sensor (SMART)

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

- Attachment with support ring for 60 / 68 mm in-wall
- Also suitable for Swiss systems
- Theft protection by hidden Allen screw

Environmental conditions

Storage:	-5 .. +60°C
Operating:	-5 .. +55°C
Humidity:	max. 90% non-condensing

Power supply

Auxiliary power:	9 .. 32 VDC
Consumption:	active: 1,5W
	standby: < 0,5W



Further information about the associated software Touch_IT-Creator on request.



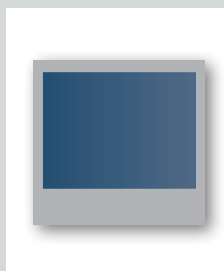
Touch_IT-Creator

Visualization and Control in KNX Systems

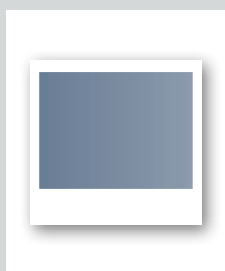
Touch_IT Smart / Touch_IT C3 / Touch_IT C3 IP65

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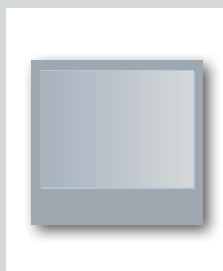
Touch_IT SMART



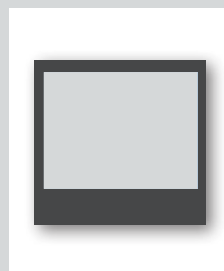
Touch_IT-V-SMART-SAE



Touch_IT-V-SMART-SAW



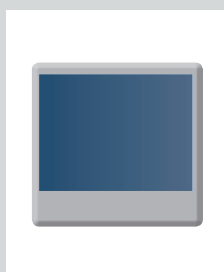
Touch_IT-V-SMART-SAS



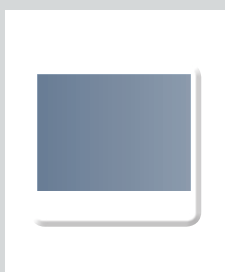
Touch_IT-V-SMART-SAB



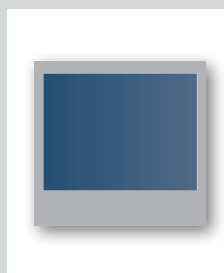
Touch_IT C3



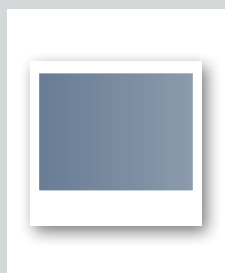
Touch_IT-V-C3-AE



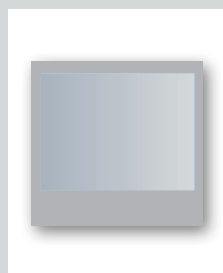
Touch_IT-V-C3-AW



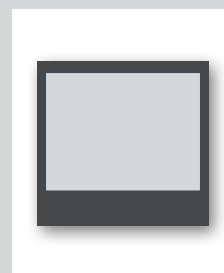
Touch_IT-V-C3-SAE



Touch_IT-V-C3-SAW



Touch_IT-V-C3-SAS



Touch_IT-V-C3-SAB



Touch_IT C3 IP65



Touch_IT-V-C3-IP65

Visualization and Control in KNX Systems

Touch_IT Smart / Touch_IT C3 / Touch_IT C3 IP65

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Touch_IT Smart



Article	Article Description	Article No.
Touch_IT-V-SMART-SAE	Aluminium sandblasted anodized	22410500
Touch_IT-V-SMART-SAW	Aluminium white powder-coated	22410501
Touch_IT-V-SMART-SAS	Aluminium sanded anodized	22410503
Touch_IT-V-SMART-SAB	Aluminium sanded black anodized	22410504

Touch_IT C3 with Bevel



Article	Article Description	Article No.
Touch_IT-V-C3-AE	Aluminium sandblasted anodized	22410200
Touch_IT-V-C3-AW	Aluminium white powder-coated	22410201

Touch_IT C3



Article	Article Description	Article No.
Touch_IT-V-C3-SAE	Aluminium sandblasted anodized	22410300
Touch_IT-V-C3-SAW	Aluminium white powder-coated	22410301
Touch_IT-V-C3-SAS	Aluminium sanded anodized	22410303
Touch_IT-V-C3-SAB	Aluminium sanded black anodized	22410304

Touch_IT IP65



Article	Article Description	Article No.
Touch_IT-V-C3-IP65	Aluminium anodized	22410265

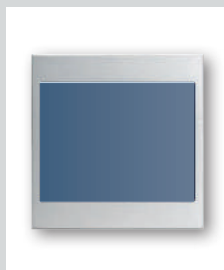
Recommended retail price
All prices plus the legal value added tax.

Visualization and Control in KNX Systems

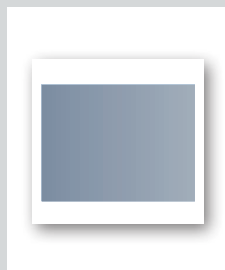
Touch_IT M / Touch_IT L

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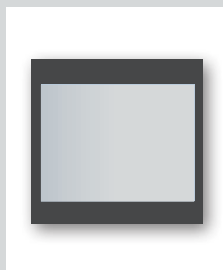
Touch_IT M



Touch_IT-V-M-SAS



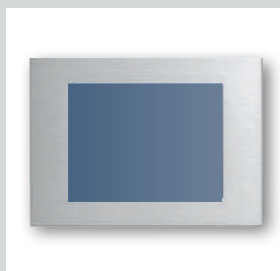
Touch_IT-V-M-SAW



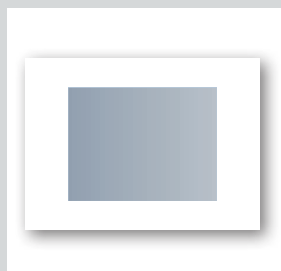
Touch_IT-V-M-SAB



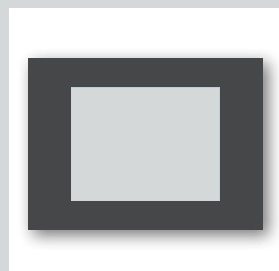
Touch_IT L



Touch_IT-V-L-SAS



Touch_IT-V-L-SAW



Touch_IT-V-L-SAB



**Touch_IT M**

Article	Article Description	Article No.
Touch_IT-V-M-SAS	Aluminium sanded anodized	22409303
Touch_IT-V-M-SAW	Aluminium white powder-coated	22409301
Touch_IT-V-M-SAB	Aluminium geschliffen black eloxiert	22409304

**Touch_IT L**

Article	Article Description	Article No.
Touch_IT-V-L-SAS	Aluminium sanded anodized	22409803
Touch_IT-V-L-SAW	Aluminium white powder-coated	22409801
Touch_IT-V-L-SAB	Aluminium sanded black anodized	22409804

A

B

KNX Sensor Systems for HVAC Applications

C

D

E

F

G

H

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Z



Reorders on request. Successor products in section C.

T - Temperature



SK01-T



SK01-OFTF



SK01-HTF



SK01-ALTF1



SK01-ALTF2



SK01-ATF



SK01-ESTF



SK01-ETF1



SK01-ETF2



SK01-ETF3



SK01-ETF7



SK01-KTF1



SK01-RPTF1



SK01-RPTF2



SK02-T



SK03-T white



SK03-T anthracite

KNX Sensor Systems for HVAC Applications

Temperature / Humidity / Climate / Enthalpy
Temperature / Temperature / Humidity / Climate / Enthalpy
Dewpoint

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TFK - Temperature / Humidity / Climate / Enthalpy



SK01-TFK-AFF



SK01-TFK-RPFF



SK01-TFK-RPFF-MFF



SK01-TFK-KFF



SK02-TFK-TFK



SK03-TFK anthracite



SK03-TFK white

**TTFK - Temperature / Temperature / Humidity / Climate / Enthalpy
Dewpoint**



SK01-TTFK-AFF



SK01-TTFK-RPFF



SK01-TTFK-RPFF-MFF



SK03-TFK anthracite



SK03-TFK white

A

B

C

KNX Sensor Systems for HVAC Applications - Application HLK 305

D

E

F

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HVAC-Application HLK 305

Functions of the HVAC-Application HLK 305

KNX sensors / controllers 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.

Measured Values

- Air temperature (sensor in the housing) also weighted with external temperature
- Relative humidity
- CO2 or VOC concentration (sensor in the housing)
- Additional floor, ceiling or component temperature (external PT1000)
- Lux (SK10L)

Calculation and Limit Values

- Absolute humidity, dew point and enthalpy
- Detection of minimum- and maximum temperature
- Heat- and frost-alarm
- Limits for temperature

Control Functions

- 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

Control and Report

- Two binary inputs
- Additional two binary inputs (SK30)
- Two Push Buttons (SK30 front)
- Rotary Controller instead of Push Buttons (SK30 front)
- 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 (SK30 front)

Logic

- Four logic blocks for the logical link between internal and external signals
- 10 associated logic inputs/outputs



RTR / RTC, PI, PI-PWM

Binäre Eingänge / binary Inputs

Temperatur / temperature
Luftfeuchte / humidity



TC - Temperature / Climate

Temperature / RTR + additional Functions + CO₂ / VOC

Measured Values

- Air temperature (sensor in the housing) also weighted with external temperature
- Air quality CO₂- or VOC concentration
- Lux (SK10L)

Calculation and Limit Values

- Detection of minimum- and maximum-temperature
- Heat- and frost-alarm
- Limits for temperature

Control Functions / Control and Report / Logic

Application HLK 305 complete

TC

C

HLK
305

THC - Temperature / Humidity / Climate

Temperature / Humidity / RTR + additional Functions + CO₂ / VOC

Measured Values

- Air temperature (sensor in the housing) also weighted with external temperature
- Relative humidity
- Air quality CO₂- or VOC concentration
- Lux (SK10L)

Calculation and Limit Values

- Absolute humidity, dew point and enthalpy
- Detection of minimum- and maximum temperature
- Heat- and frost-alarm
- Limits for temperature

Control Functions / Control and Report / Logic

Application HLK 305 complete

THC

TTHC - Temperature / Temperature / Humidity / Climate

Temperature / Temperature / Humidity / RTR + additional Functions + CO₂ / VOC

Measured Values

- Air temperature (sensor in the housing) also weighted with external temperature
- Relative humidity
- Air quality CO₂- or VOC concentration
- Additional floor, ceiling or component temperature (external PT1000)
- Lux (SK10L)

Calculation and Limit Values

- Absolute humidity, dew point and enthalpy
- Detection of minimum- and maximum-temperature
- Heat- and frost-alarm
- Limits for temperature

Control Functions / Control and Report / Logic

Application HLK 305 complete

TTHC

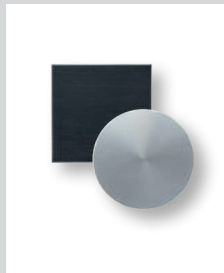
KNX Sensor Systems for HVAC Applications - Application HLK 305

TC - Temperature / RTR

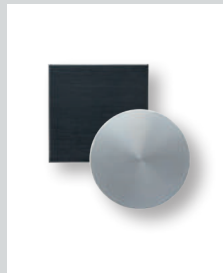
+ additional Functions + CO₂ / VOC

arcus-eds

NEO-TC



NEO-TC-x

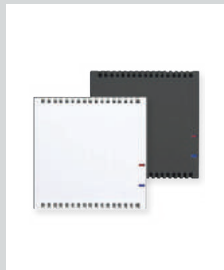


NEO-TC-CO2



NEO-TC-VOC

SK30-TC



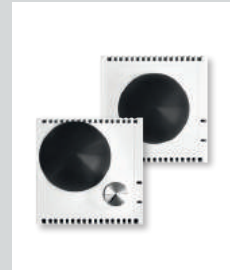
SK30-TC



SK30-TC-PB



SK30-TC-R



SK30-TC-RSTF
SK30-TC-RSTF-R



SK30-TC-CO2



SK30-TC-CO2-PB



SK30-TC-CO2-R



SK30-TC-VOC



SK30-TC-VOC-PB



SK30-TC-VOC-R

SK20-TC



SK20-TC-2B



SK20-TC-CO2-2B



SK20-TC-VOC-2B

KNX Sensor Systems for HVAC Applications - Application HLK 305

TC - Temperature / RTR
+ additional Functions + CO₂ / VOC

arcus-eds

SK07-TC



SK07-TC-6B

SK10L-TC



SK10L-TC-L

SK10-TC



SK10-TC



SK10-TC-OFTF



SK10-TC-HTF



SK10-TC-ALTF1



SK10-TC-ATF



SK10-TC-ALTF2



SK10-TC-ESTF



SK10-TC-ETF1



SK10-TC-ETF2



SK10-TC-ETF3



SK10-TC-ETF7



SK10-TC-KTF1



SK10-TC-RPTF1



SK10-TC-RPTF2

C

HLK
305

TC

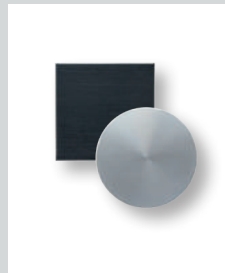
KNX Sensor Systems for HVAC Applications - Application HLK 305

THC - Temperature / Humidity / RTR

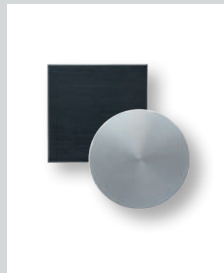
+ additional Functions + CO₂ / VOC

arcus-eds

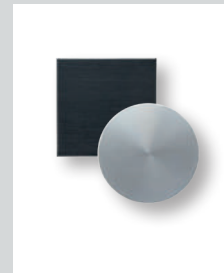
NEO-THC



NEO-THC-x



NEO-THC-CO2



NEO-THC-VOC

SK30-THC



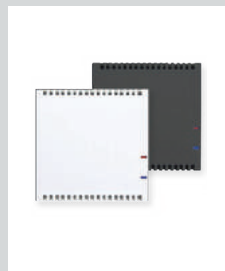
SK30-THC



SK30-THC-PB



SK30-THC-R



SK30-THC-CO2



SK30-THC-CO2-PB



SK30-THC-CO2-R



SK30-THC-VOC



SK30-THC-VOC-PB



SK30-THC-VOC-R

SK20-THC



SK20-THC-2B



SK20-THC-CO2-2B



SK20-THC-VOC-2B

SK07-THC



SK07-THC-4B

SK10-THC



SK10-THC-CO2-KF



SK10-THC-VOC-KF



SK10L-THC-L-AFF



SK10-THC-ALKF1



SK10-THC-ALKF2



SK10-THC-AFF



SK10-THC-KFF



SK10-THC-RPFF



SK10THC-RPFF-MFF

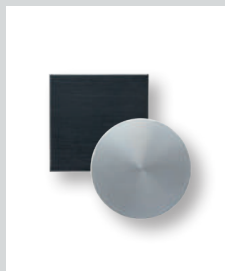
KNX Sensor Systems for HVAC Applications - Application HLK 305

TTHC - Temperature / Temperature / Humidity / RTR

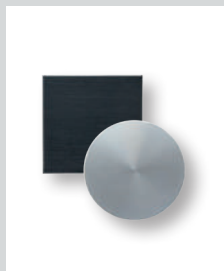
+ additional Functions + CO₂ / VOC

arcus-eds

NEO-TTHC



NEO-TTHC-x

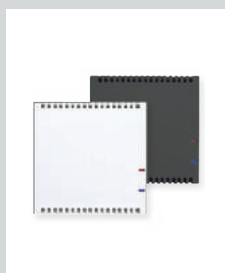


NEO-TTHC-CO2



NEO-TTHC-VOC

SK30-TTHC



SK30-TTHC



SK30-TTHC-PB



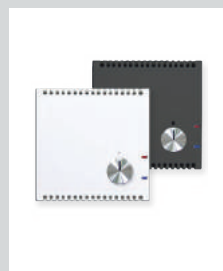
SK30-TTHC-R



SK30-TTHC-CO2



SK30-TTHC-CO2-PB



SK30-TTHC-CO2-R



SK30-TTHC-VOC



SK30-TTHC-VOC-PB



SK30-TTHC-VOC-R

SK20-TTHC



SK20-TTHC-2B



SK20-TTHC-CO2-2B



SK20-TTHC-VOC-2B

KNX Sensor Systems for HVAC Applications - Application HLK 305

TTHC - Temperature / Temperature / Humidity / RTR

+ additional Functions + CO₂ / VOC

arcus-eds

SK07-TTHC



SK07-TTHC-4B



SK10L-TTHC-L-AFF

SK10-TTHC



SK10-TTHC-AFF



SK10-TTHC-RPFF



SK10-TTHC-RPFF-MFF



SK10-TTHC-KFF

C

HLK
305

TTHC

C
HLK
305

KNX Sensor Systems for HVAC Applications - Application HLK 305

TC - Temperature / RTR

+ additional Functions + CO2 / VOC

TC

KNX Sensor Systems for HVAC Applications - Application HLK 305

TC - Temperature / RTR

+ additional Functions + CO₂ / VOC

arcus-eds

AQS	Aluminum, square, sanded
AQB	Aluminum, square, sanded, black
ARE	Aluminum, round, anodized
ARB	Aluminum, round, anodized, black

Neo-TC-x

KNX Sensor / Controller Temperature
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C

IP20 Aluminum housing
for (60/68 mm) flush-mounted socket

Article	Product group	Article No.
Neo-TC-AQS	WG 1	30511583
Neo-TC-AQB		30511584
Neo-TC-ARE		30511683
Neo-TC-ARB		30511684

Neo-TC-CO₂-x

KNX Sensor / Controller Temperature
CO₂ Concentration
Binary Inputs + Additional Functions

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured CO₂ range: 300 - 5000 ppm

IP20 Aluminum housing
for (60/68 mm) flush-mounted socket

Article	Product group	Article No.
Neo-TC-CO ₂ -AQS	WG 10	30512563
Neo-TC-CO ₂ -AQB		30512564
Neo-TC-CO ₂ -ARE		30512663
Neo-TC-CO ₂ -ARB		30512664

Neo-TC-VOC-x

KNX Sensor / Controller Temperature
VOC Concentration
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured VOC range: 400 - 10 000 ppm CO₂ equivalent

IP20 Aluminum housing
for (60/68 mm) flush-mounted socket

Article	Product group	Article No.
Neo-TC-VOC-AQS	WG 10	30513563
Neo-TC-VOC-AQB		30513564
Neo-TC-VOC-ARE		30513663
Neo-TC-VOC-ARB		30513664

KNX Sensor Systems for HVAC Applications - Application HLK 305

TC - Temperature / RTR

+ additional Functions + CO₂ / VOC

arcus-eds

C
HLK
305

TC

SK30-TC

KNX Sensor / Controller Temperature
Binary Inputs + Additional Functions



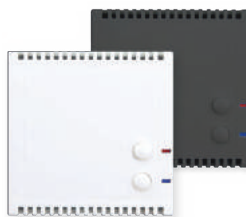
Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TC white	WG 1	30511361
SK30-TC ultra dark grey		30511362

SK30-TC-PB

KNX Sensor / Controller Temperature
Push Buttons
Binary Inputs + Additional Functions



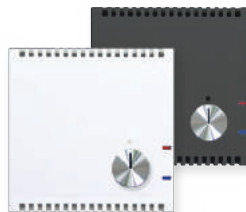
Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TC-PB white	WG 1	30511371
SK30-TC-PB ultra dark grey		30511372

SK30-TC-R

KNX Sensor / Controller Temperature
Rotary Controller
Binary Inputs + Additional Functions



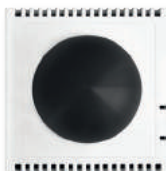
Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TC-R white	WG 1	30511351
SK30-TC-R ultra dark grey		30511352

SK30-TC-RSTF

KNX Sensor / Controller Temperature
optional Rotary Controller

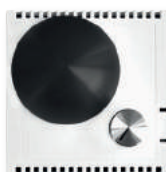


The temperature probe PT1000 is in a black plastic sphere (Ø 50 mm)

The dark radiation probe detects radiation and radiation heat.

Operating temperature: -5 .. +60 °C
Measuring range: -5 .. +60 °C

IP20 Plastic housing in 55mm standard size



Article	Product group	Article No.
SK30-TC-RSTF	WG 1	30516361
SK30-TC-RSTF-R	WG 1	30516351

KNX Sensor Systems for HVAC Applications - Application HLK 305

TC - Temperature / RTR
+ additional Functions + CO₂ / VOC

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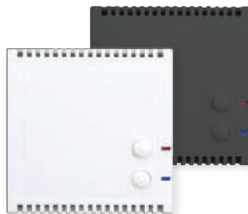
SK30-TC-CO2

KNX Sensor / Controller Temperature
CO₂ Concentration
Binary Inputs + Additional Functions

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured CO₂ range: 300 - 5000 ppm

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TC-CO2 white	WG 10	30512361
SK30-TC-CO2 ultra dark grey		30512362



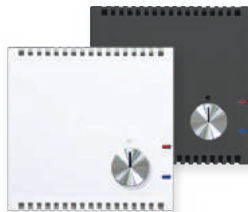
SK30-TC-CO2-PB

KNX Sensor / Controller Temperature
CO₂ Concentration, Push Buttons
Binary Inputs + Additional Functions

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured CO₂ range: 300 - 5000 ppm

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TC-CO2-PB white	WG 10	30512371
SK30-TC-CO2-PB ultra dark grey		30512372



SK30-TC-CO2-R

KNX Sensor / Controller Temperature
CO₂ Concentration, Rotary Controller
Binary Inputs + Additional Functions

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured CO₂ range: 300 - 5000 ppm

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TC-CO2-R white	WG 10	30512351
SK30-TC-CO2-R ultra dark grey		30512352



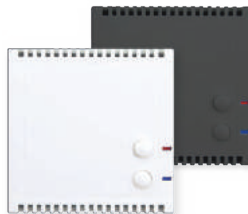
SK30-TC-VOC

KNX Sensor / Controller Temperature
VOC Concentration
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured VOC range: 400 - 10 000 ppm CO₂ Äquivalent

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TC-VOC white	WG 10	30513361
SK30-TC-VOC ultra dark grey		30513362



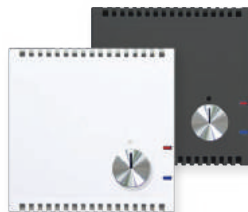
SK30-TC-VOC-PB

KNX Sensor / Controller Temperature
VOC Concentration, Push Buttons
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured VOC range: 400 - 10 000 ppm CO₂ Äquivalent

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TC-VOC-PB white	WG 10	30513371
SK30-TC-VOC-PB ultra dark grey		30513372



SK30-TC-VOC-R

KNX Sensor / Controller Temperature
VOC Concentration, Rotary Controller
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured VOC range: 400 - 10 000 ppm CO₂ Äquivalent

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TC-VOC-R white	WG 10	30513351
SK30-TC-VOC-R ultra dark grey		30513352

KNX Sensor Systems for HVAC Applications - Application HLK 305

TC - Temperature / RTR

+ additional Functions + CO₂ / VOC

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SK20-TC-2B

KNX Sensor / Controller Temperature
Binary Inputs

Operating temperature: -25 .. +80 °C

Measured temperature range: -25 .. +80 °C

IP20 Plastic housing (71 x 71 x 25) mm

Article	Product group	Article No.
SK20-TC-2B	WG 1	30511261



SK20-TC-CO2-2B

KNX Sensor / Controller Temperature
CO2 Concentration
Binary Inputs

Operating temperature: 0 .. +50 °C

Measured temperature range: 0 .. +50 °C

Measured CO2 range: 0 - 2000 ppm

IP20 Plastic housing (71 x 71 x 25) mm

Article	Product group	Article No.
SK20-TC-CO2-2B	WG 10	30512261



SK20-TC-VOC-2B

KNX Sensor / Controller Temperature
VOC Concentration
Binary Inputs

Operating temperature: -25 .. +80 °C

Measured temperature range: -25 .. +80 °C

Measured VOC range: 400 - 10 000 ppm CO₂ Äquivalent

IP20 Plastic housing (71 x 71 x 25) mm

Article	Product group	Article No.
SK20-TC-VOC-2B	WG 10	30513261

KNX Sensor Systems for HVAC Applications - Application HLK 305

TC - Temperature / RTR

+ additional Functions + CO₂ / VOC

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SK07-TC-6B

KNX Sensor / Controller Temperature

Connection for temperature sensor PT1000

6 button inputs

Two switch inputs can be configured as outputs at 3VDC(1mA)

Operating temperature (module): -25 .. +80 °C
Measurement range PT1000: -50 .. +400 °C

IP20 Plastic housing (50 x 50 x 20) mm
Delivery without temperature sensor



Article	Product group	Article No.
SK07-TC-6B	WG 1	30510790



An additional PT1000 probe for surface mounting, screwing in or contacting with customised cable-length can be ordered with cable lengths of 1.5 / 3 / 5 / 8 / 10 m or longer.
(see section Z, Components / Replacement Parts)

SK10L-TC-L

KNX Sensor / Controller Temperature
with Brightness Sensor

Operating temperature: -25 .. +80 °C
Measured brightness range: 3 .. 220.000 lux ± 20%
Measurement range PT1000: -50 .. +400 °C

IP54/65 Plastic housing (72 x 64 x 45) mm
Delivery without temperature sensor



Article	Product group	Article No.
SK10L-TC-L	WG 1	30514100



SK10 without Temperature Probe

KNX Sensor / Controller Temperature

Operating temperature (module): -25 .. +80 °C
Measurement range PT1000: -50 .. +400 °C

IP54/65 Plastic housing (72 x 64 x 40) mm
Delivery without temperature sensor

Article	Product group	Article No.
SK10-TC	WG 1	30510000



SK10 with Surface Contacting Probe

KNX Sensor / Controller Temperature
Surface-Contacting probe, square, for flat surfaces.

The aluminium casing of the PT1000 temperature probe is attached to the surface with glue.

Operating temperature: -25 .. +80 °C
Measured temperature range: -30 .. +105 °C

Connecting cable: PVC 1.5 m
IP54/65 Plastic housing (72 x 64 x 40) mm

Article	Product group	Article No.
SK10-TC-OFTF	WG 1	30511001



SK10 with Sleeve Probe

KNX Sensor / Controller Temperature
Sleeve probe (PT1000) for temperature detection in liquid and gaseous media using an immersion sleeve.

Probe: Stainless steel, sleeve sensor, round, rolled stamped (protected from humidity)
50 mm, Ø 6 mm.

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

Article	Article description	Product group	Article No.
SK10-TC-HTF PVC 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C Connecting cable: PVC 1.5 m	WG 1	30511002
SK10-TC-HTF Silicone 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +180 °C Connecting cable: Silicone 1.5 m	WG 1	30511003
SK10-TC-HTF PTFE 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +250 °C Connecting Cable IP68: PTFE 1.5 m	WG 1	30511055



SK10 with Pipe-mounted Probe

KNX Sensor / Controller Temperature
with axial probe tube

Used for temperature detection of liquid and gaseous media on pipes and tubes.

Installation on pipe with endless strap and metal tightener.

Strap dimensions: Ø 13-92 mm (1/4 - 3"), 300 mm (included in delivery)

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

Article	Article description	Product group	Article No.
SK10-TC-ALTF1 PVC 1.5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C	WG 1	30511004
SK10-TC-ALTF1 Silicone 1.5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +180 °C	WG 1	30511005



SK10 with Pipe-mounted Probe

KNX Sensor / Controller Temperature
with contacting probe (PT1000) on the rear side of the terminal box

Used for temperature detection of liquids and gaseous media in pipes and tubes.

Installation on tubes with endless strap and metal tightener (included).

Strap dimensions: Ø 13 - 92 mm (1/4 - 3"), 300 mm

Operating temperature: -25 .. +80 °C

Measured temperature range: -30 .. +110 °C

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

Article	Product group	Article No.
SK10-TC-ALTF2	WG 1	30511006



SK10 with External Probe

KNX Sensor / Controller Temperature

The PT1000 probe is enclosed in a V4A stainless steel sheath tube (60 mm, Ø 6 mm).

Operating temperature: -25 .. +80 °C

Measured temperature range: -30 .. +90 °C

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

Article	Product group	Article No.
SK10-TC-ATF2	WG 1	30511007



SK10 with Screw-in Probe - Immersion Sleeve V4A with Cable Connection

KNX Sensor / Controller Temperature

The PT1000 probe is in a brass sheath tube (Ø 8 mm, max. pressure 40 bar) made of V4A steel with cable connection.

Used for temperature detection in liquid or gaseous media, in heating plants, circulation and climate technology.

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

Article	Article description	Product group	Article No.
SK10-TC-ESTF 50 mm PVC 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C Probe: G 1/2", 50 mm	WG 1	30511008
SK10-TC-ESTF 100 mm PVC 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -35 .. +105 °C Probe: G 1/2", 100 mm	WG 1	30511009
SK10-TC-ESTF 50 mm Silicone 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +180 °C Probe: G 1/2", 50 mm	WG 1	30511010
SK10-TC-ESTF 100 mm Silicone 1,5 m	Operating temperature: -25 .. +80 °C Measured temperature range: -50 .. +180 °C Probe: G 1/2", 100 mm	WG 1	30511011



SK10 with Screw-in Probe - Immersion Sleeve Brass

KNX Sensor / Controller Temperature

The PT1000 probe is in a stainless steel tube (G 1/2", Ø 6 mm), which is inside a nickel-plated brass immersion sleeve (Ø 8 mm, max. pressure 10 bar).

Used for temperature detection in liquid or gaseous media, in heating plants, circulation and climate technology.

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

Article	Article description	Product group	Article No.
SK10-TC-ETF1 50mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511013
SK10-TC-ETF1 100mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511014
SK10-TC-ETF1 150mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511015
SK10-TC-ETF1 200mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511016
SK10-TC-ETF1 250mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511017
SK10-TC-ETF1 300mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511018
SK10-TC-ETF1 400mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511019



SK10 with Screw-in Probe - Immersion Sleeve V4A

KNX Sensor / Controller Temperature

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

Used for temperature detection in liquid or gaseous media, in heating plants, circulation and climate technology.

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

Article	Article description	Product group	Article No.
SK10-TC-ETF2 50mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511020
SK10-TC-ETF2 100mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511021
SK10-TC-ETF2 150mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511022
SK10-TC-ETF2 200mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511023
SK10-TC-ETF2 250mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511024
SK10-TC-ETF2 300mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511025
SK10-TC-ETF2 400mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511 026



SK10 with Screw-in Probe – Immersion Sleeve with extended Shaft V4A

KNX Sensor / Controller Temperature

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

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

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

Article	Article description	Product group	Article No.
SK10-TC-ETF3 50mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. 150 °C	WG 1	30511027
SK10-TC-ETF3 100mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511028
SK10-TC-ETF3 150mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511029
SK10-TC-ETF2 200mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511030
SK10-TC-ETF2 250mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511031
SK10-TC-ETF2 300mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511032
SK10-TC-ETF2 400mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C	WG 1	30511033

SK10 with Screw-in Probe, extended Shaft and Neck Tube for quick Response Time

KNX Sensor / Controller Temperature

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

Pipe length: 25mm
Pipe measurements: Ø 6 mm, plain tapered Ø 4mm
Protective material: stainless steel

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



Article	Article description	Product group	Article No.
SK10-TC-ETF7 100mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C Probe: G 1/2", 100 mm	WG 1	30511034
SK10-TC-ETF7 150mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C Probe: G 1/2", 150 mm	WG 1	30511035
SK10-TC-ETF7 250mm	Operating temperature: -25 .. +80 °C Measured temperature range: -30 .. +150 °C Probe: G 1/2", 250 mm	WG 1	30511036



SK10 with Duct Probe incl. Mounting Flange

KNX Sensor / Controller Temperature

The PT1000 probe is in a V4A stainless steel sheath tube (Ø 6 mm).

Used in air ducts and heating and climate technology.
The boxes are mounted onto air ducts with a plastic sleeve and 2 screws.

Operating temperature: -25 .. +80 °C

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

Article	Article description	Product group	Article No.
SK10-TC-KTF1 50mm	Measured temperature range: -30 .. +150 °C Probe: 50 mm	WG 1	30101037
SK10-TC-KTF1 100mm	Measured temperature range: -30 .. +150 °C Probe: 100 mm	WG 1	30101038
SK10-TC-KTF1 150mm	Measured temperature range: -30 .. +150 °C Probe: 150 mm	WG 1	30101039
SK10-TC-KTF1 200mm	Measured temperature range: -30 .. +150 °C Probe: 200 mm	WG 1	30101040
SK10-TC-KTF1 250mm	Measured temperature range: -30 .. +150 °C Probe: 250 mm	WG 1	30101041
SK10-TC-KTF1 300mm	Measured temperature range: -30 .. +150 °C Probe: 300 mm	WG 1	30101042
SK10-TC-KTF1 400mm	Measured temperature range: -30 .. +150 °C Probe: 400 mm	WG 1	30101043



SK10 with Room Pendulum Probe

KNX Sensor / Controller Temperature

The temperature probe PT1000 is in a sheath tube.

Especially suited for large rooms and high ceilings. The sensor is suspended from the ceiling.

Probe: 100 mm, M12 / 1.5 mm
Operating temperature: -25 .. +80 °C
Measured temperature range: -5 .. +60 °C
Connecting cable: PVC 2 m

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

Article	Product group	Article No.
SK10-TC-RPTF1	WG 1	30511050



SK10 with Dark Radiation Probe

KNX Sensor / Controller Temperature

The temperature probe PT1000 is in a black plastic sphere (Ø 50 mm)

The dark radiation probe detects radiation and radiation heat.

Especially suited for large rooms and high ceilings. The sensor is suspended from the ceiling.

Operating temperature: -25 .. +80 °C
Measured temperature range: -5 .. +60 °C
Connecting cable: PVC 2 m

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

Article	Product group	Article No.
SK10-TC-RPTF2	WG 1	30511051

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KNX Sensor Systems for HVAC Applications - Application HLK

THC - Temperature / Humidity / RTR

+ additional Functions + CO₂ / VOC

THC

KNX Sensor Systems for HVAC Applications - Application HLK 305

THC - Temperature / Humidity / RTR

+ additional Functions + CO₂ / VOC

arcus-eds

AQS	Aluminum, square, sanded
AQB	Aluminum, square, sanded, black
ARE	Aluminum, round, anodized
ARB	Aluminum, round, anodized, black

Neo-THC-x

KNX Sensor / Controller Temperature Humidity
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H

IP20 Aluminum housing
for (60/68 mm) flush-mounted socket

Article	Product group	Article No.
Neo-THC-AQS	WG 1	30531583
Neo-THC-AQB		30531584
Neo-THC-ARE		30531683
Neo-THC-ARB		30531684

Neo-THC-CO2-x

KNX Sensor / Controller Temperature Humidity
CO₂ Concentration
Binary Inputs + Additional Functions

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured humidity range: 0 .. 95% r.H
Measured CO₂ range: 300 - 5000 ppm

IP20 Aluminum housing
for (60/68 mm) flush-mounted socket

Article	Product group	Article No.
Neo-THC-CO2-AQS	WG 10	30532563
Neo-THC-CO2-AQB		30532564
Neo-THC-CO2-ARE		30532663
Neo-THC-CO2-ARB		30532664

Neo-THC-VOC-x

KNX Sensor / Controller Temperature Humidity
VOC Concentration
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 10 .. 95% r.H
Measured VOC range: 400 - 10 000 ppm CO₂ Equivalent

IP20 Aluminum housing
for (60/68 mm) flush-mounted socket

Article	Product group	Article No.
Neo-THC-VOC-AQS	WG 10	30533563
Neo-THC-VOC-AQB		30533564
Neo-THC-VOC-ARE		30533663
Neo-THC-VOC-ARB		30533664

KNX Sensor Systems for HVAC Applications - Application HLK 305

THC - Temperature / Humidity / RTR

+ additional Functions + CO₂ / VOC

arcus-eds



SK30-THC

KNX Sensor / Controller Temperature Humidity
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-THC white	WG 1	30531361
SK30-THC ultra dark grey		30531362



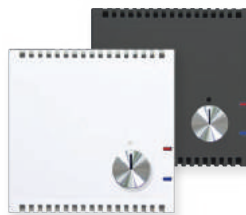
SK30-THC-PB

KNX Sensor / Controller Temperature Humidity
Push Buttons
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-THC-PB white	WG 1	30531371
SK30-THC-PB ultra dark grey		30531372



SK30-THC-R

KNX Sensor / Controller Temperature Humidity
Rotary Controller
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-THC-R white	WG 1	30531351
SK30-THC-R ultra dark grey		30531352

KNX Sensor Systems for HVAC Applications - Application HLK 305

THC - Temperature / Humidity / RTR
+ additional Functions + CO₂ / VOC

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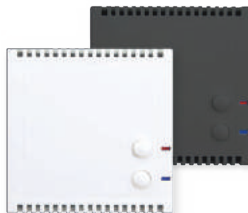
SK30-THC-CO2

KNX Sensor / Controller Temperature Humidity
CO₂ Concentration
Binary Inputs + Additional Functions

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured humidity range: 0 .. 95% r.H
Measured CO₂ range: 300 - 5000 ppm

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-THC-CO2 white	WG 10	30532361
SK30-THC-CO2 ultra dark grey		30532362



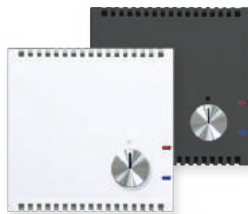
SK30-THC-CO2-PB

KNX Sensor / Controller Temperature Humidity
CO₂ Concentration, Push Button
Binary Inputs + Additional Functions

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured humidity range: 0 .. 95% r.H
Measured CO₂ range: 300 - 5000 ppm

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-THC-CO2-PB white	WG 10	30532371
SK30-THC-CO2-PB ultra dark grey		30532372



SK30-THC-CO2-R

KNX Sensor / Controller Temperature Humidity
CO₂ Concentration, Rotary Controller
Binary Inputs + Additional Functions

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured humidity range: 0 .. 95% r.H
Measured CO₂ range: 300 - 5000 ppm

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-THC-CO2-R white	WG 10	30532351
SK30-THC-CO2-R ultra dark grey		30532352

KNX Sensor Systems for HVAC Applications - Application HLK 305

THC - Temperature / Humidity / RTR

+ additional Functions + CO₂ / VOC

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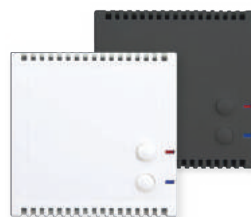
SK30-THC-VOC

KNX Sensor / Controller Temperature Humidity
VOC Concentration
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 10 .. 95% r.H
Measured VOC range: 400 - 10 000 ppm CO₂ equivalent

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-THC-VOC white	WG 10	30533361
SK30-THC-VOC ultra dark grey		30533362



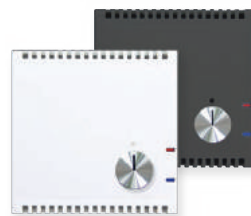
SK30-THC-VOC-PB

KNX Sensor / Controller Temperature Humidity
VOC Concentration, Push Button
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 10 .. 95% r.H
Measured VOC range: 400 - 10 000 ppm CO₂ equivalent

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-THC-VOC-PB white	WG 10	30533371
SK30-THC-VOC-PB ultra dark grey		30533372



SK30-THC-VOC-R

KNX Sensor / Controller Temperature Humidity
VOC Concentration, Rotary Controller
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 10 .. 95% r.H
Measured VOC range: 400 - 10 000 ppm CO₂ equivalent

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-THC-VOC-R white	WG 10	30533351
SK30-THC-VOC-R ultra dark grey		30533352

KNX Sensor Systems for HVAC Applications - Application HLK 305

THC - Temperature / Humidity / RTR

+ additional Functions + CO₂ / VOC

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SK20-THC-2B

KNX Sensor / Controller Temperature Humidity
Binary Inputs

Operating temperature: -20 .. +80 °C
Measured temperature range: -20 .. +80 °C
Measured humidity range: 0 .. 95% r.H

IP20 Plastic housing (71 x 71 x 25) mm

Article	Product group	Article No.
SK20-THC-2B	WG 1	30531261



SK20-THC-CO2-2B

KNX Sensor / Controller Temperature
CO₂ Concentration
Binary Inputs

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured humidity range: 0 .. 95% r.H
Measured CO₂ range: 300 - 5000 ppm

IP20 Plastic housing (71 x 71 x 25) mm

Article	Product group	Article No.
SK20-THC-CO2-2B	WG 10	30532261



SK20-THC-VOC-2B

KNX Sensor / Controller Temperature
VOC Concentration
Binary Inputs

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 10 .. 95% r.H
Measured VOC range: 400 - 10 000 ppm CO₂ Equivalent

IP20 Plastic housing (71 x 71 x 25) mm

Article	Product group	Article No.
SK20-THC-VOC-2B	WG 10	30533261

KNX Sensor Systems for HVAC Applications - Application HLK 305

THC - Temperature / Humidity / RTR

+ additional Functions + CO₂ / VOC

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SK07-THC-4B

KNX Sensor / Controller Temperature Humidity

6 button inputs

Two switch inputs can be configured as outputs at 3VDC(1mA)

Operating temperature (module): -25 .. +80 °C

Measurement range SHT Temperature: -25 .. +80 °C

Measurement range SHT Humidity: 0 .. 95% r.H

IP20 Plastic housing (50 x 50 x 20) mm

Delivery without temperature/humidity sensor

Article	Product group	Article No.
SK07-THC-4B	WG 1	30530780



An additional PT1000 probe for surface mounting, screwing in or contacting with customised cable-length can be ordered with cable lengths of 1.5 / 3 / 5 / 8 / 10 m or longer.

(see section Z, Components / Replacement Parts)



SK10L-THC-L-AFF

KNX Sensor / Controller
Temperature / Humidity / Climate
with Brightness Sensor

The probe is protected from dust by a poroplast plastic coating.

Probe: 45 mm

Operating temperature: -25 .. +80 °C

Measured temperature range: -25 .. +80 °C

Measured humidity range: 0 .. 100% r.H

Measured brightness range: 3 .. 220.000 lux ± 20%

IP54/65 Plastic housing (72 x 64 x 45) mm

Article	Product group	Article No.
SK10L-THC-L-AFF	WG 1	30534153



SK10 with CO2 Duct Probe

KNX Sensor / Controller Temperature Humidity
CO2 Concentration

Probe length: 230 mm
Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured humidity range: 0 .. 95% r.H
Measured CO2 range: 300 - 5000 ppm

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

Article	Product group	Article No.
SK10-THC-CO2-KF	WG 10	30532001



SK10 with VOC Duct Probe

KNX Sensor / Controller Temperature Humidity
VOC Concentration

Probe length: 230 mm
Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 10 .. 95% r.H
Measured VOC range: 400 - 10 000 ppm CO2 equivalent

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

Article	Product group	Article No.
SK10-THC-VOC-KF	WG 10	30533001



SK10-THC-ALKF1

KNX Sensor / Controller
Temperature / Humidity / Climate

Condensation monitor with remote sensor head and connecting cable

Cable length: 1.5m
Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H

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

Article	Product group	Article No.
SK10-THC-ALKF1	WG 1	30531161



SK10-THC-ALKF2

KNX Sensor / Controller
Temperature / Humidity / Climate

Condensation monitor with tensioning strap for direct pipe mounting.
Contacting probe (PT1000) on the rear side of the terminal box

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H

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

Article	Product group	Article No.
SK10-THC-ALKF2	WG 1	30531162

KNX Sensor Systems for HVAC Applications - Application HLK 305

THC - Temperature / Humidity / RTR
+ additional Functions + CO₂ / VOC

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SK10 with External Probe

KNX Sensor / Controller
Temperature / Humidity / Climate

The probe is protected from dust by a poroplast protective coating.

Application: building automation, refrigeration, air conditioning and ventilation systems, clean rooms, greenhouses, etc.

Probe length: 45 mm
Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H

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

Article	Product group	Article No.
SK10-THC-AFF	WG 1	30531053



SK10 with Duct Probe

KNX Sensor / Controller
Temperature / Humidity / Climate

The probe is protected from dust by a poroplast protective coating.

Application: detection of temperature in air ducts, local regulation in heating systems for constant KNX valves or electrothermal valves, local air regulation.

Installation: The boxes are fixed to the air duct with a plastic sleeve and two screws.

Probe length: 230 mm
Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H

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

Article	Product group	Article No.
SK01-THC-KFF	WG 1	30531057



SK10 with Room Pendulum Probe

KNX Sensor / Controller
Temperature / Humidity / Climate

Application: building automation, refrigeration, air conditioning and clean room technology, greenhouses, halls with high ceilings.

For installation in high rooms the sensor is suspended from the ceiling.

The probe is protected from dust by a poroplast protective coating and is used as a pendulum room sensor.

Probe: 100 mm
Connecting cable: PVC 2 m
Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H

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

Article	Product group	Article No.
SK10-THC-RPFF	WG 1	30531054



SK10 with Room Pendulum Probe

KNX Sensor / Controller
Temperature / Humidity / Climate

Application: building automation, refrigeration, air conditioning and clean room technology, greenhouses, halls with high ceilings.

For the installation in high rooms the sensor is suspended from the ceiling.

The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor.

Probe: 100 mm
Connecting cable: PVC 2m
Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H

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

Article	Product group	Article No.
SK10-THC-RPFF-MMF	WG 1	30531056

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KNX Sensor Systems for HVAC Applications - Application HLK 305

TTHC - Temperature / Temperature / Humidity / RTR

+ additional Functions + CO2 / VOC

TTHC

KNX Sensor Systems for HVAC Applications - Application HLK 305

TTHC - Temperature / Temperature / Humidity / RTR

+ additional Functions + CO₂ / VOC

arcus-eds

AQS	Aluminum, square, sanded
AQB	Aluminum, square, sanded, black
ARE	Aluminum, round, anodized
ARB	Aluminum, round, anodized, black

Neo-TTHC-x

KNX Sensor / Controller Temperature Humidity
ext. Temperature (PT1000)
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C

IP20 Aluminum housing for (60/68 mm) flush-mounted socket

Article	Product group	Article No.
Neo-TTHC-AQS	WG 1	30541583
Neo-TTHC-AQB		30541584
Neo-TTHC-ARE		30541683
Neo-TTHC-ARB		30541684

Neo-TTHC-CO2-x

KNX Sensor / Controller Temperature Humidity
CO2 Concentration
ext. Temperature (PT1000), Push Buttons
Binary Inputs + Additional Functions

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured humidity range: 0 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C
Measured CO2 range: 300 - 5000 ppm

IP20 Aluminum housing for (60/68 mm) flush-mounted socket

Article	Product group	Article No.
Neo-TTHC-CO2-AQS	WG 10	30542563
Neo-TTHC-CO2-AQB		30542564
Neo-TTHC-CO2-ARE		30542663
Neo-TTHC-CO2-ARB		30542664

Neo-TTHC-VOC-x

KNX Sensor / Controller Temperature Humidity
VOC Concentration
ext. Temperature (PT1000)
Binary Inputs + Additional Functions

Operating temperature: 25 .. +80 °C
Measured temperature range: 25 .. +80 °C
Measured humidity range: 10 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C
Measured VOC range: 400 - 10 000 ppm CO2 Equivalent

IP20 Aluminum housing for (60/68 mm) flush-mounted socket

Article	Product group	Article No.
Neo-TTHC-VOC-AQS	WG 10	30543563
Neo-TTHC-VOC-AQB		30543564
Neo-TTHC-VOC-ARE		30543663
Neo-TTHC-VOC-ARB		30543664

KNX Sensor Systems for HVAC Applications - Application HLK 305

TTHC - Temperature / Temperature / Humidity / RTR

+ additional Functions + CO₂ / VOC

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TTHC

SK30-TTHC



KNX Sensor / Controller Temperature Humidity
ext. Temperature (PT1000)
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 195% r.H
Measured range ext. PT1000: -50 .. +400 °C

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TTHC white	WG 1	30541361
SK30-TTHC ultra dark grey		30541362

SK30-TTHC-PB



KNX Sensor / Controller Temperature Humidity
ext. Temperatur (PT1000), Push Buttons
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TTHC-PB white	WG 1	30541371
SK30-TTHC-PB ultra dark grey		30541372

SK30-TTHC-R



KNX Sensor / Controller Temperature Humidity
ext. Temperatur (PT1000), Rotary Controller
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TTHC-R white	WG 1	30541351
SK30-TTHC-R ultra dark grey		30541352

KNX Sensor Systems for HVAC Applications - Application HLK 305

TTHC - Temperature / Temperature / Humidity / RTR
+ additional Functions + CO₂ / VOC

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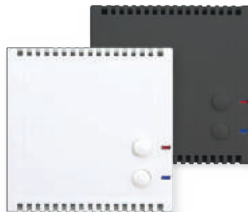
SK30-TTHC-CO2

KNX Sensor / Controller Temperature Humidity
CO₂ Concentration
ext. Temperature (PT1000)
Binary Inputs + Additional Functions

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured humidity range: 0 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C
Measured CO₂ range: 300 - 5000 ppm

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TTHC-CO2 white	WG 10	30542361
SK30-TTHC-CO2 ultra dark grey		30542362



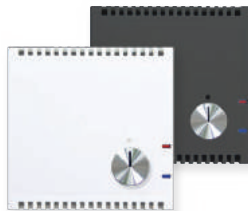
SK30-TTHC-CO2-PB

KNX Sensor / Controller Temperature Humidity
CO₂ Concentration
ext. Temperature (PT1000), Push Buttons
Binary Inputs + Additional Functions

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured humidity range: 0 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C
Measured CO₂ range: 300 - 5000 ppm

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TTHC-CO2-PB white	WG 10	30542371
SK30-TTHC-CO2-PB ultra dark grey		30542372



SK30-TTHC-CO2-R

KNX Sensor / Controller Temperature Humidity
CO₂ Concentration
ext. Temperature (PT1000), Drehregler
Binary Inputs + Additional Functions

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured humidity range: 0 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C
Measured CO₂ range: 300 - 5000 ppm

IP20 Plastic housing in 55mm standard size

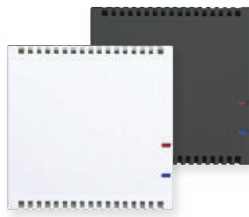
Article	Product group	Article No.
SK30-TTHC-CO2-R white	WG 10	30542351
SK30-TTHC-CO2-R ultra dark grey		30542352

KNX Sensor Systems for HVAC Applications - Application HLK 305

TTHC - Temperature / Temperature / Humidity / RTR

+ additional Functions + CO₂ / VOC

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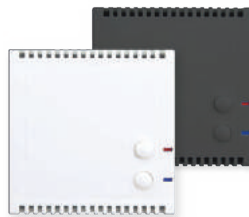
SK30-TTHC-VOC

KNX Sensor / Controller Temperature Humidity
VOC Concentration
ext. Temperatur (PT1000)
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 10 .. 95% r.H
Measured Temp. range ext. PT1000: -50 .. +400 °C
Measured VOC range: 400 - 10 000 ppm CO₂ equivalent

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TTHC-VOC white	WG 10	30543361
SK30-TTHC-VOC ultra dark grey		30543362



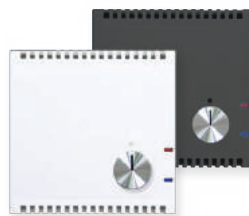
SK30-TTHC-VOC-PB

KNX Sensor / Controller Temperature Humidity
VOC Concentration
ext. Temperatur (PT1000), Push Buttons
Binary Inputs + Additional Functions

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 10 .. 95% r.H
Measured Temp. range ext. PT1000: -50 .. +400 °C
Measured VOC range: 400 - 10 000 ppm CO₂ equivalent

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TTHC-VOC-PB white	WG 10	30543371
SK30-TTHC-VOC-PB ultra dark grey		30543372



SK30-TTHC-VOC-R

KNX Sensor / Controller Temperature Humidity
VOC Concentration
ext. Temperatur (PT1000), Rotary Controller
Binary Inputs + Additional Functions

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured humidity range: 10 .. 95% r.H
Measured Temp. range ext. PT1000: -50 .. +400 °C
Measured VOC range: 400 - 10 000 ppm CO₂ equivalent

IP20 Plastic housing in 55mm standard size

Article	Product group	Article No.
SK30-TTHC-VOC-R white	WG 10	30543351
SK30-TTHC-VOC-R ultra dark grey		30543352

KNX Sensor Systems for HVAC Applications - Application HLK 305

TTHC - Temperature / Temperature / Humidity / RTR
+ additional Functions + CO₂ / VOC

arcus-eds



SK20-TTHC-2B

KNX Sensor / Controller Temperature Humidity
ext. Temperature (PT1000)
Binary Inputs

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 100% r.H
Measured range ext. PT1000: -50 .. +400 °C

IP20 Plastic housing (71 x 71 x 25) mm

Article	Product group	Article No.
SK20-TTHC-2B	WG 1	30541261



SK20-TTHC-CO2-2B

KNX Sensor / Controller Temperature Humidity
ext. Temperature (PT1000)
CO₂ Concentration
Binary Inputs

Operating temperature: 0 .. +50 °C
Measured temperature range: 0 .. +50 °C
Measured humidity range: 0 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C
Measured CO₂ range: 300 - 5000 ppm

IP20 Plastic housing (71 x 71 x 25) mm

Article	Product group	Article No.
SK20-TTHC-CO2-2B	WG 10	30542261



SK20-TTHC-VOC-2B

KNX Sensor / Controller Temperature Humidity
ext. Temperature (PT1000)
VOC Concentration
Binary Inputs

Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 10 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C
Measured VOC range: 400 - 10 000 ppm CO₂ equivalent

IP20 Plastic housing (71 x 71 x 25) mm

Article	Product group	Article No.
SK20-TTHC-VOC-2B	WG 10	30543261



SK07-TTHC-4B

KNX Sensor / Controller Temperature Humidity

Connection for PT1000

Connection for Temp. / Humidity Sensor

6 button inputs

Two switch inputs can be configured as outputs at 3VDC(1mA)

Operating temperature (module): -25 .. +80 °C
 Measured temperature range: -25 .. +80 °C
 Measured humidity range: 0 .. 95% r.H
 Measured range PT1000: -50 .. +400 °C

IP20 Plastic housing (50 x 50 x 20) mm

Delivery without temperature/humidity sensor

Article	Product group	Article No.
SK07-TTHC-4B	WG 1	30540780



SK10L-TTHC-L-AFF

KNX Sensor / Controller

Temperature / Humidity / Climate

with Brightness Sensor ext. Temperature (PT1000)

The probe is protected from dust by a poroplast protective coating.

Probe: 45 mm
 Operating temperature: -25 .. +80 °C
 Measured temperature range: -25 .. +80 °C
 Measured humidity range: 0 .. 95% r.H
 Measured brightness range: 3 .. 220.000 lux ± 20 %
 Measured range ext. PT1000: -50 .. +400 °C

IP54/65 Plastic housing (72 x 64 x 45) mm

An additional PT1000 probe is not included in delivery.

Article	Product group	Article No.
SK10L-TTHC-L-AFF	WG 1	30544153



SK10 with External Probe

KNX Sensor / Controller Temperature / Humidity
+ ext. Temperature (PT1000)

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

The temperature / humidity probe is protected from dust by a poroplast protective coating.

Probe: 45 mm
Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C

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

An additional PT1000 probe is not included in delivery.

Article	Product group	Article No.
SK10-TTHC-AFF	WG 1	30541053



An additional PT1000 probe for surface mounting, screwing in or contacting with customised cable-length can be ordered with cable lengths of 1.5 / 3 / 5 / 8 / 10 m or longer.
(see section Z, Components / Replacement Parts)

SK10 with Room Pendulum Probe

KNX Sensor / Controller Temperature / Humidity
+ ext. Temperature (PT1000)

Application: building automation, refrigeration, air conditioning and ventilation technology, greenhouses, in halls with high ceilings, etc.

For installation in high rooms the sensor is suspended from the ceiling.

The probe is protected from dust by a poroplast protective coating and is used as a pendulum room sensor.



Probe: 100 mm
Connecting cable: PVC 2m
Operating temperature: -25 .. +80°C
Measured temperature range: -25 .. +80°C
Measured humidity range: 0 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C

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

An additional PT1000 probe is not included in delivery.

Article	Product group	Article No.
SK10-TTHC-RPFF	WG 1	30541054

SK10 with Room Pendulum Probe

KNX Sensor / Controller Temperature / Humidity
+ ext. Temperature (PT1000)

Application: building automation, refrigeration, airconditioning and clean room technology, greenhouses, halls with high ceilings.

For the installation in high rooms the sensor is suspended from the ceiling.

The probe is protected from condensation and dust by a hydrogas metal membrane filter and is used as a pendulum room sensor.



Probe: 100 mm
Connecting cable: PVC 2m
Operating temperature: -25 .. +80°C
Measured temperature range: -25 .. +80°C
Measured humidity range: 0 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C

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

An additional PT1000 probe is not included in delivery.

Article	Product group	Article No.
SK10-TTHC-RPFF -MMF	WG 1	30541056



An additional PT1000 probe for surface mounting, screwing in or contacting with customised cable-length can be ordered with cable lengths of 1.5 / 3 / 5 / 8 / 10 m or longer.
(see section Z, Components / Replacement Parts)



SK10 with Duct Probe

KNX Sensor / Controller/ Temperature / Humidity / Climate
+ ext. Temperature (PT1000)

The probe is protected from dust by a poroplast protective coating.

Application: detection of temperature in air ducts, local regulation in heating systems for constant KNX valves or electrothermal valves, local air regulation.

Installation: The boxes are fixed to the air duct with a plastic sleeve and two screws.

Probe length: 230 mm
Operating temperature: -25 .. +80 °C
Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 95% r.H
Measured range ext. PT1000: -50 .. +400 °C

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

An additional PT1000 probe is not included in delivery.

Article	Product group	Article No.
SK10-TTHC-KFF	WG 1	30541057



An additional PT1000 probe for surface mounting, screwing in or contacting with customised cable-length can be ordered with cable lengths of 1.5 / 3 / 5 / 8 / 10 m or longer.
(see section Z, Components / Replacement Parts)

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KNX Actuators

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Ventilation



SK07-Lunos-Control4-IW

Heating



SK08-Ventil4

KNX Actuators

Ventilation

arcus-eds

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

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

Up to 4 ventilation devices are powered by a module.

Several modules can be networked together via the KNX bus to allow coordinated operation. The ventilation units can be directly controlled by the existing switch inputs.



SK07-Lunos-Control4-IW

The module enables the control of decentralized ventilation units with heat recovery from the company Lunos.

Operating temperature: -5 .. +45 °C
Additional voltage: 24 .. 32 VDC max. 18 W

IP20 Plastic housing (50 x 50 x 20) mm
For in-wall mounting in dry interiors, IP20

Article	Product group	Article No.
SK07-Lunos-Control4-IW	WG 1	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.

0 -12V linear actuator for valves or a 24V PWM for thermal control valves in heating circuit are available.

Additional supply of 24 .. 32 VDC necessary



SK08-Ventil4

Control of up to 4 actuators or mixing valves

Additional voltage: 24 .. 32 VDC
Plastic housing: (115 x 65 x 55) mm

On-wall mounting in dry indoor applications IP54/65

Article	Product group	Article No.
SK08-Ventil4	WG 1	65102008

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KNX Sensors - Physical and Chemical Measurement Instrumentation S8

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8 x Temperature



SK08-T8

Global Radiation



SK08-GLBS-MES

Water Quality



SK08-WAQ



SK08-WAQ-MES

Soil Humidity / Temperature Air Humidity / Temperature



SK08-BFT-WMT



SK08-BFTLFT-AFF-WMT

Level Sensor System



SK01-S8-F
REG-S8-F



SK01-S8-F-PM25
REG-S8-F-PM25

Voltage Metering



SK08-AN2

The **product series S8** provides a range of sensors and controllers of various physical and chemical measurements for indoor and outdoor applications.

Functions:

- Up to 8 measured values each with:
- 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)

SK08-T8

KNX Controller 8 Channel Temperature for measurement and control of up to 8 temperatures.

The temperatures are measured with the external PT1000 temperature probes. Different kind of probes can be mixed in one installation.

The temperature probes (PT1000) are not included in delivery.

The SK08-T8 can also be ordered to connect PT100 or PT500 elements.

Operating temperature: -20 .. +80 °C

Plastic housing: (115 x 65 x 55) mm

For indoor / outdoor and damp room
IP54/65



Article	Article description		Product group	Article No.
SK08-T8	Operating temperature:	-20 .. +80 °C	WG 1	30801000
	Measured temperature range: PT1000	-50 .. +200 °C		
SK08-T8E	Operating temperature:	-20 .. +80 °C	WG 1	30801001
	Measured temperature range: PT1000	-50 .. +400 °C		
SK08-T8-PT100	Operating temperature:	-20 .. +80 °C	WG 1	30801100
	Measured temperature range: PT1000	-50 .. +200 °C		
SK08-T8-PT500	Operating temperature:	-20 .. +80 °C	WG 1	30801500
	Measured temperature range: PT1000	-50 .. +200 °C		

An additional PT1000 probe for surface mounting, screwing in or contacting with customised cable-length can be ordered with cable lengths of 1.5 / 3 / 5 / 8 / 10 m or longer.
(see section Z, Components / Replacement Parts)



SK08-WAQ / SK08-WAQ-MES

KNX Sensor / Controller

Galvanic isolated instrumentation amplifier and bus coupling unit for measurement and control of the water quality indicators pH and ORP with the optional connection for PT1000 temperature probe.

The age of the electrodes depends on many factors, so the exact expectancy can not be estimated.
Standard values:

- Operation in room temperature: 1-3 years
- Operation in 60-80 °C: several months
- Operation in 80-100 °C: several weeks

Measuring Electrode Units (see section Z, Components / Replacement Parts)

For monitoring and control of the water quality in aquariums, swimming pools, ponds and service water systems.

Operating temperature: 0 .. +80 °C

Plastic housing: (115 x 65 x 55) mm

For indoor / outdoor and damp room IP54/65



Article	Article description	Product group	Article No.
SK08-WAQ	KNX Sensor / controller for water quality without Measuring Electrode Units	WG 1	30802000
Operating temperature: 0 .. +80 °C Plastic housing: (115 x 65 x 55) mm			



SK08-WAQ-MES	KNX Sensor / controller for water quality with Measuring Electrode Units included	WG 1	30802001
Operating temperature: 0 .. +80 °C Plastic housing: (115 x 65 x 55) mm			



SK08-GLBS-MES

KNX - Global radiation sensor
silicone pyranometer
pyranometer and Busmodul included

Range: 0 .. 1800 W/m²
Accuracy: 5 %
Spectral range: 400 .. 1100 nm
Temperature range: -40 .. +65 °C

Drift: typical 2% p.a.
With bubble level for exact leveling

Plastic housing: (115 x 65 x 55) mm
Connecting cable: 0,5m

For indoor / outdoor and damp room IP54/65

Article	Product group	Article No.
SK08-GLBS-MES	WG 10	30804001



SK08-BFT-WMT

KNX sensor / controller for monitoring and control of soil moisture and soil temperature.

(PT1000) with Watermark®-WM (maintenance free) soil moisture probe.

Connection cable Watermark®-WM:
Standard: 5 m
orderable until: 50 m

Plastic housing: (115 x 65 x 55) mm

Article	Product group	Article No.
SK08-BFT-WMT incl. Watermark® soil moisture probe	WG 10	30805001

Connection cable Watermark®-WM
orderable until 50 m
per running meter AN-WMT 90200500



SK08-BFTLFT-AFF-WMT

KNX sensor / controller for monitoring and control of soil moisture and soil temperature.

(PT1000) with Watermark®-WM (maintenance free) soil moisture probe
and air temperature and humidity sensor.

Operating temperature: -25 .. +80 °C
Measured Temp. Range (Soil): -25 .. +80 °C
Measured Temp. Range (Air): -25 .. +80 °C
Measured Humidity Range: 0 .. 95% r.H

Connection Cable Watermark®-WM:
Standard: 5 m
orderable until: 50 m

Plastic housing: (115 x 65 x 55) mm
For indoor / outdoor and damp room IP54/65

Article	Product group	Article No.
SK08-BFTLFT-AFF-WMT incl. Watermark® soil moisture probe	WG 10	30805021

Connection cable Watermark®-WM
orderable until 50 m
per running meter AN-WMT 90200500

**Level Sensor System (Ultrasonic)**

The ultrasonic level sensor system LevelJET by the company ProJET evaluates the levels in tanks of many construction types.

Minimal and maximal levels can be set on site. The bus coupling unit enables the use of the values in the KNX-Bus.

Additional supply: 9 .. 12 VDC / 35 mA
Wall power supply included in delivery.
Data cable: 1.5 m

There are two different measurement ranges available with two different housings.



Article	Article description	Product group	Article No.
SK01-S8-F-ST	Plastic housing: (72 x 64 x 40) mm IP54/65 Measuring range: 0.2 .. 2.5 m Connection cable length Sensor head Standard: 4m Orderable until: 100m	WG 10	30807001 per running meter
REG-S8-F-ST	DIN Rail mounted housing 2 units width (35 mm) IP20 Measuring range: 0.2 .. 2.5 m Connection cable length Sensor head Standard: 4 m Orderable until: 100 m	WG 10	30807002 per running meter
SK01-S8-F-HR-6	Plastic housing: (72 x 64 x 40) mm IP54/65 Measuring range: 0.6 .. 5 m Connection cable length Sensor head Standard: 4 m Orderable until: 100 m	WG 10	30807011 per running meter
REG-S8-F-HR-6	DIN Rail mounted housing 2 units width (35 mm) IP20 Measuring range: 0.6 .. 5 m Connection cable length Sensor head Standard: 4 m Orderable until: 100 m	WG 10	30807012 per running meter



Level Sensor System (Hydrostatic)

The hydrostatic Level sensor system LevelJET by the company ProJET measures and controls the levels of water cisterns (various construction types) with KNX connection.

Minimal and maximal levels can be set on site. The bus coupling unit enables the use of the values in the KNX-Bus.

Additional supply: 9 .. 12 VDC / 35 mA
Wall power supply included in delivery.
Data cable: 1.5 m

There are two different housings available..



Article	Article description	Product group	Article No.
SK01-S8-F-PM25	Plastic housing: (72 x 64 x 40) mm IP54/65 Measuring range level: 0 .. 5 m Connection cable length Sensor head: 25 m	WG 10	30807031 lfm.
REG-S8-F-PM25	DIN Rail mounted housing 2 units width (35 mm) IP20 Measuring range level: 0 .. 5 m Connection cable length Sensor head: 25 m	WG 10	30807032 lfm.



SK08-AN2

KNX Dataconverter / controller for monitoring and control of two analog voltages.
Input range 0 .. 10 VDC.

Factory setting: 0 .. 10 VDC

Plastic housing: (115 x 65 x 55) mm
For indoor / outdoor and damp room IP54/65

Article	Product group	Article No.
SK08-AN2	WG 1	30806202

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KNX Gateways

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KNX Gateways

DMX / RS232 / RS485 / MBUS / MODBUS

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Gateway 2 DMX / RS232 / RS485



KNX-GW2-DMX



KNX-GW2-DMX-2TE



KNX-GW2-RS232-RS485

Gateway MBUS



KNX-GW-MBUS-SK01



KNX-GW-MBUS-REG



KNX-GW-MBUS-SK08

Gateway MODBUS



KNX-GW-MODBUS-SK07-RS485

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Gateways

KNX-Gateway 2
DMX / RS232 / RS485

Technical Data

Outline:	2TE (35 x 90 x 63 mm) 6TE (107 x 75 x 31 mm)
Protection class:	IP 20
Operating temperature:	-5 .. +45 °C
KNX-load:	20 .. 32 VDC / 150 mW
Power supply:	9 .. 30 VDC / 100 mA
Data rates:	RS232 (DMX) 250.0 kBaud max. RS485 (DMX) 115.2 kBaud max.



KNX-GW2-DMX



KNX-GW2-DMX-2TE

KNX-GW2-DMX

The KNX-DMX Gateway is an interface between the KNX bus and the DMX512 bus. It combines elements of building automation with a variety of lighting and special effects devices for every need.

The KNX-DMX Gateway is unidirectional, receives data telegrams on the KNX bus and transmits the data onto the DMX512 bus. The interface allows the DMX512 actuators to communicate via the KNX bus using the full range of the channel.

Windows 10 compatible
Extended Memory

Parametrization is done by the dedicated program DMX Configurator.

Article	Product group	Article No.
KNX-GW2-DMX (6TE)	WG 1	40200186

Article	Product group	Article No.
KNX-GW2-DMX-2TE	WG 1	40200182



KNX-GW2-RS232-RS485

KNX-GW2-RS232-RS485

The KNX-GW2-RS232-RS485 is a gateway between the KNX-Bus and the serial lines RS232 or RS485. It can be used to easily connect devices with serial data of both directions like multimedia equipment or alarm systems to the KNX-Bus.

Windows 10 compatible
Extended memory

The parametrization is done by the new associated software RS232-Configurator.

Article	Product group	Article No.
KNX-GW2-RS232-RS485 (6TE)	WG 1	40220186



Further information about the associated software is available on request.



KNX-RS232-GW-II-Configurator



KNX-DMX-GW-II-Configurator

KNX-Gateway M-BUS

Application: 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.

KNX Readable Data:

For each M-Bus device

- device date
- Secondary Address

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

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



KNX-GW-MBUS-SK01

M-Bus Gateway for up to 3 M-Bus devices

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

Article	Product group	Article No.
KNX-GW-MBUS-SK01	WG 1	60400001



KNX-GW-MBUS-REG

M-Bus Gateway for up to 3 M-Bus devices

DIN Rail mounted housing 2 units width (35 x 90 x 63 mm)
IP20

Article	Product group	Article No.
KNX-GW-MBUS-REG	WG 1	60400002



KNX-GW-MBUS-SK08

M-Bus Gateway for up to 3 M-Bus devices

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

Plastic housing: (115 x 65 x 55) mm
IP54/65

Article	Product group	Article No.
KNX-GW-MBUS-SK08	WG 1	60400008

KNX Gateway MODBUS

Application:

KNX bus coupling for counters with Modbus/
RTU interface

The bus coupler represents a bus master of the Modbus/RTU interface.

A connection can be made via RS485 (maximum 32 subscribers incl. Master) or RS232 (P2P).
This option must be selected upon order and cannot be changed by application.

32 M-Bus data points are available, they can be assigned freely to the different devices.



KNX-GW-MODBUS-SK07

Modbus gateway for up to 32 data points

Standard Interface RS485

Plastic housing:
50 x 50 x 20 mm, 58mm diagonal
(for in-wall mounting in dry interiors)
IP20

Article	Product group	Article No.
KNX-GW-MODBUS-RS485	WG 1	40300007
KNX-GW-MODBUS-RS232	WG 1	40310007

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KNX Smart Metering

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KNX Smart Metering

Impulse Counter / In Home Water Meter / Heat Quantity Meter

arcus-eds

Impulse Counter



KNX-IMPZ1-SK01



KNX-IMPZ1-REG



KNX-IMPZ2-SK01



KNX-IMPZ2-REG

In Home Water Meter



KNX-IMPZ_WZ-M

Heat Quantity Meter

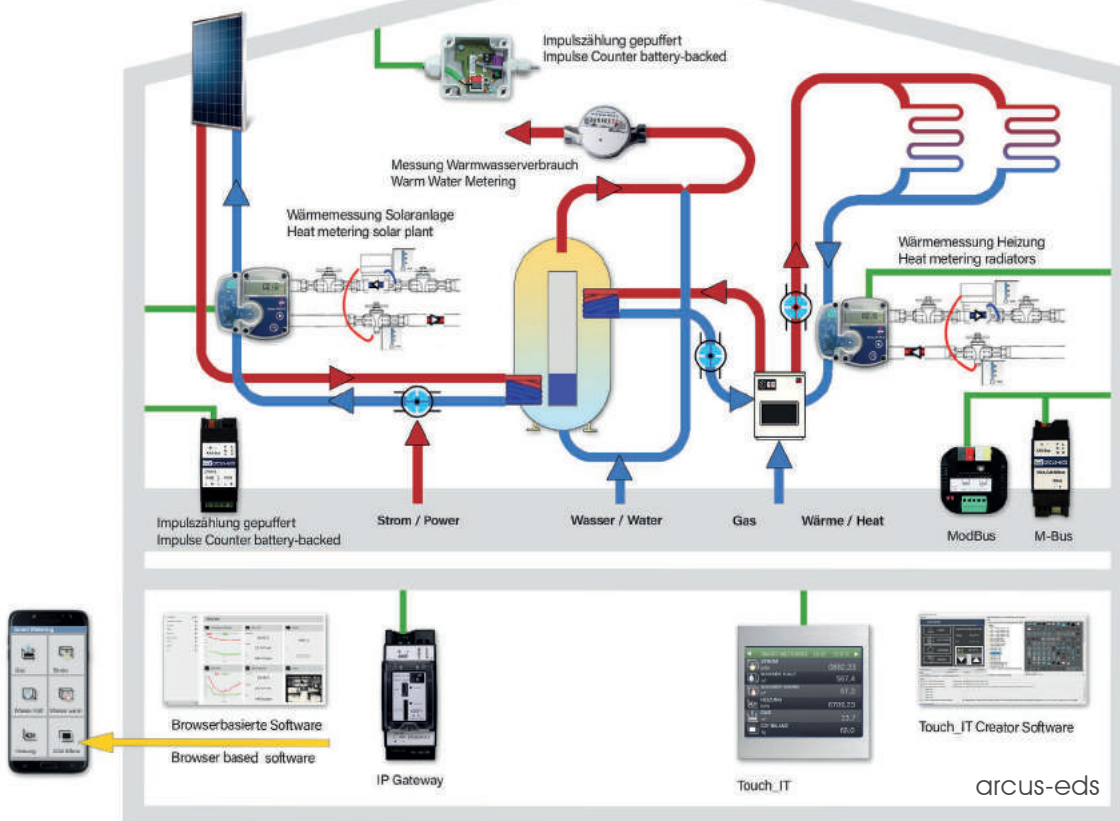


KNX-WZ-R5-M

G

Smart
Metering

Smart Metering



Impulse Counter IMPZ

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

Meters with potential free impulse 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.

In Home Water Meter WZ-M

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

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

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 by Arcus-EDS GmbH.

All meters of the series WZ-R5.M are equipped with an internal KNX coupling unit, they are MID approved, sealed and calibrated.

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.

Impulse Counting Module KNX-IMPZ

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

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

KNX Readable Data:

- Serial number
- Accumulated consumption m³
- Current flow rate m³
- Time
- Date
- Consumption value
- Last reference value
- Last reference date
- Next reference date
- Consumption Reset
- Consumption last reset time
- Consumption last reset date

KNX-IMPZ1-SK01



1 Channel S0 counter module
Plastic housing: (72 x 64 x 40) mm
IP54/65

Article	Product group	Article No.
KNX-IMPZ1-SK01	WG 1	60201101



KNX-IMPZ1-REG

DIN Rail mounted housing
2 units width (35 mm)
IP20

Article	Product group	Article No.
KNX-IMPZ1-REG	WG 1	60201102



KNX-IMPZ2-SK01

2 Channel S0 counter module
Plastic housing: (72 x 64 x 40) mm
IP54/65

Article	Product group	Article No.
KNX-IMPZ1-SK01	WG 1	60201201



KNX-IMPZ2-REG

2 Channel S0 counter module
DIN Rail mounted housing
2 units width (35 mm)
IP20

Article	Product group	Article No.
KNX-IMPZ2-REG	WG 1	60201202

In Home Water Meter Modularis WZ-M



KNX Readable Data:

- Serial number
- Accumulated volume in l or m³
- Current flow rate in l or m³/unit of time
- Current time
- Current date
- Last reference date
- Last reference value
- Next reference date
- Consumption value
- Consumption Reset
- Consumption last reset date
- Consumption last reset time

Connection box:

- Plastic housing (72 x 64 x 40) mm

Protection class: IP54/65

WZ-M Technical Data		Remarks	Article No.
Nominal width (DN)	15	WZK-M cold 30°C	60201-75124015
Nominal flow (Q ₃) MID	2.5 m³/h		
Connection external thread - meter	3/4 "	WZW-M warm 90°C	60201-75124515
Connection external thread - thread	1/2 "		
Length	80 mm		
Nominal width (DN)	15	WZK-M cold 30°C	60201-75124115
Nominal flow (Q ₃) MID	2.5 m³/h		
Connection external thread - meter	3/4 "	WZW-M warm 90°C	60201-75124615
Connection external thread - thread	1/2 "		
Length	110 mm		
Nominal width (DN)	20	WZK-M cold 30°C	60201-75124025
Nominal flow (Q ₃) MID	4 m³/h		
Connection external thread - meter	1 "	WZW-M warm 90°C	60201-75124525
Connection external thread - thread	3/4 "		
Length	130 mm		



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

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

KNX Heat Quantity Meter WZ-R5.M



KNX Readable Data:

- Energy
- Volume
- Power
- Flow rate
- Return temperature
- Supply temperature
- Temperature difference
- Reference value of the last 18 months

Temperature range: 2 .. 120°C

Temperature difference: 3 .. 190 K

Arithmetic unit: IP54

KNX module: IP52

KNX Heat Quantity Meter Dialog WZ-R5.M		Temperature Probe	Article No.
Nominal diameter (DN)	15	PT500 2-wire technology Cable length: 1.2m direct measuring	6040-85123106
Minimum flow	0.6 m ³ /h		
Connection AG meter	3/4 "		
Connection AG thread	1/2 "		
Length	110mm		
Nominal diameter (DN)	15	PT500 2-wire technology Cable length: 1.2m direct measuring	6040-85123115
Minimum flow	1.5 m ³ /h		
Connection AG meter	3/4 "		
Connection AG thread	1/2 "		
Length	110mm		
Nominal diameter (DN)	20		6040-85123125
Minimum flow	2.5 m ³ /h		
Connection AG meter	1 "		
Connection AG thread	3/4 "		
Length	130mm		



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

All meters of the series WZ-R5.M are equipped with an internal KNX coupling unit, they are MID approved, sealed and calibrated.

KNX Gateway M-BUS

Application: 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 that can be assigned freely to the different devices.

KNX Readable Data:

For each M-Bus device

- device date
- Secondary Address

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

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

KNX Gateway MODBUS

Application: KNX bus coupling for counters with Modbus/RTU interface

The bus coupler represents a bus master of the Modbus/RTU interface.

A connection can be made via RS485 (maximum 32 subscribers incl. Master) or RS232 (P2P).

This option must be selected upon order and cannot be changed by application.

32 M-Bus data points are available, they can be assigned freely to the different devices.



For further Information about M-BUS Gateway and MODBUS Gateway see pages 101 / 102 in **Section F Gateways.**

A

B

C

D

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G

H

KNX Lighting

I

Z

KNX-LED-Driver-Unit



KNX-LED-Driver Unit

LED2L



KNX-LED2L-ARE-H
KNX-LED2L-ARB-H

LED2S



KNX-LED2S-ARE-H
KNX-LED2S-ARB-H



KNX-LED2S-ARE
KNX-LED2S-ARB



KNX-LED2S-AQS
KNX-LED2S-AQS

LED4



KNX-LED4-ARE-H
KNX-LED4-ARB-H



KNX-LED4-ARE
KNX-LED4-ARB



KNX-LED4-AQS
KNX-LED4-AQS

Housing Designs

ARE-H	Aluminum, round, anodised black	half bulb
ARB-H	Aluminum, round, black anodised	half bulb
ARE	Aluminum, round, anodised	
ARB	Aluminum, round, black anodised	
AQS	Aluminum, square, polished, anodised	
AQB	Aluminum, square, polished, black anodised	

LED 2 - Dual White



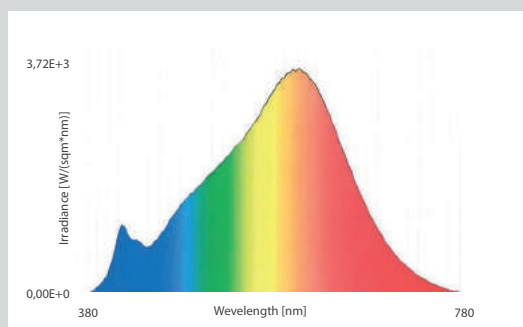
LED wall light with clear and smooth illumination up to 700 lm

KNX-LED2 is a dual white LED lamp controlled via KNX-Bus.

Adjustable colour temperature moods can be generated and adapted to daylight. The hemispherical lamp allows for a wide range of a diffused soft background light.

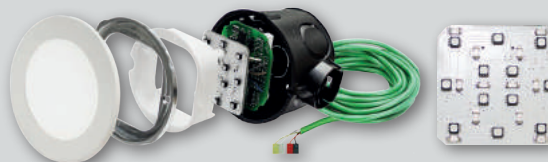
Luminous flux: 350/700 lm
 Connection power: 3.5/7 W
 Luminous colour: warm white 2700K
 cold white 5000K
 CRI: 85-95, R8: 70-80,
 Energy efficiency: A+/++

- saturated smooth light mixture
- auxiliary voltage 24 - 32VDC required
- adjusting and dimming via KNX-application



luminous flux: 310.8 lm, colour temperature 2792K

LED 4 - RGB / Amber



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

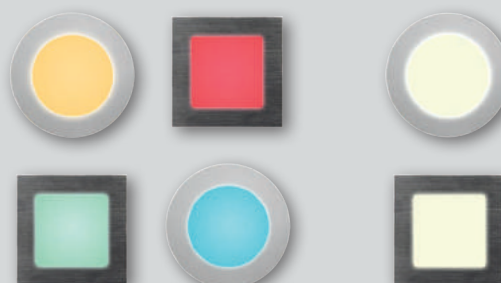
KNX LED4 is an RGB(A) LED lamp controlled via KNX-Bus.

The light colour for warning or information signaling can be selected via the KNX bus.

This opens up the possibility of professional access control to conference rooms, switch rooms, treatment rooms or hotel rooms.

Luminous flux: 150 lm
 Connection power: 3 W
 Luminous colour: RGB + amber

- fixed selectable saturated colours or 16 Million adjustable colours
- auxiliary voltage 24 - 32VDC required
- adjusting via complex KNX-application



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

KNX-LED4 warm white



KNX-LED-Driver Unit

LED driver for controlling RGB and dual white LED lights or strips.
Colour temperature adjustable, dimmable
2 binary contacts

Total power: 12VDC / 25W oder 24VDC / 50W

IP20, standard flush mounting (60/68 mm)

Article	Product group	Article No.
KNX-LED-Driver Unit	WG 1	41040070



KNX-LED4 - half bulb

KNX light LED 4 channel RGB+A (half bulb)
Colour adjustable, dimmable
RGB + Amber
2 binary contacts

Power: 3 W
Luminous flux: 150 lm

IP20, standard flush mounting (60/68 mm)

Article	Product group	Article No.
KNX-LED4-ARE-H	WG 1	41040243
KNX-LED4-ARB-H	WG 1	41040244



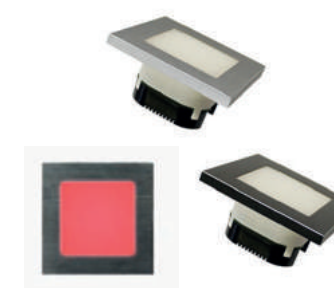
KNX-LED4 - round flat

KNX light LED 4 channel RGB+A (round flat)
Colour adjustable, dimmable
RGB + Amber
2 binary contacts

Power: 3 W
Luminous flux: 150 lm

IP20, standard flush mounting (60/68 mm)

Article	Product group	Article No.
KNX-LED4-ARE	WG 1	41040213
KNX-LED4-ARB	WG 1	41040214



KNX-LED4 - square flat

KNX light LED 4 channel RGB+A (square flat)
Colour adjustable, dimmable
RGB + Amber
2 binary contacts

Power: 3 W
Luminous flux: 150 lm

IP20, standard flush mounting (60/68 mm)

Article	Product group	Article No.
KNX-LED4-AQS	WG 1	41040223
KNX-LED4-AQB	WG 1	41040224

**KNX-LED2 L - half bulb**

KNX light LED (half bulb)
 dual white
 Colour temperature adjustable, dimmable
 2 binary contacts

Power: 7 W
 Luminous flux: 700 lm

IP20, standard flush mounting (60/68 mm)

Article	Product group	Article No.
KNX-LED2L-ARE-H	WG 1	41020543
KNX-LED2L-ARB-H	WG 1	41020544

**KNX-LED2 S - half bulb**

KNX light LED (half bulb)
 dual white
 Colour temperature adjustable, dimmable
 2 binary contacts

Power: 3.5 W
 Luminous flux: 350 lm

IP20, standard flush mounting (60/68 mm)

Article	Product group	Article No.
KNX-LED2S-ARE-H	WG 1	41020443
KNX-LED2S-ARB-H	WG 1	41020444

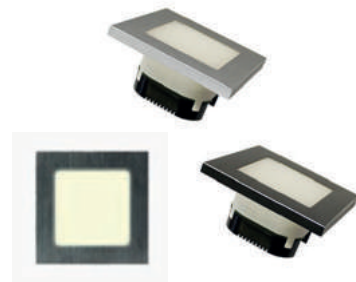
**KNX-LED2 S - round flat**

KNX light LED (round flat)
 dual white
 Colour temperature adjustable, dimmable
 2 binary contacts

Power: 3.5 W
 Luminous flux: 350 lm

IP20, standard flush mounting (60/68 mm)

Article	Product group	Article No.
KNX-LED2S-ARE	WG 1	41020413
KNX-LED2S-ARB	WG 1	41020414

**KNX-LED2 S - square flat**

KNX light LED (square flat)
 dual white
 Colour temperature adjustable, dimmable
 2 binary contacts

Power: 3.5 W
 Luminous flux: 350 lm

IP20, standard flush mounting (60/68 mm)

Article	Product group	Article No.
KNX-LED2S-AQS	WG 1	41020423
KNX-LED2S-AQB	WG 1	41020424

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I

KNX System Devices

Z

KNX System Devices

IP / LAN / Arcus-iButton / Choke / GPS / IP-Workstation

arcus-eds

IP / LAN



KNX-GW-IP-2TE



KNX-GW2-IP-2TE

Arcus-iButton



KNX-iButton-SK07



KNX-iButton-SK08

Choke



KNX-Drossel-DR16

GPS



SK10L-GPS-SC-L

IP-Workstation



KNX-IP-Workstation

KNX System Devices

KNX Choke / Timer / Astronomic Clock / Access Control

Central IP-Gateway with Visualization / Data Logger / Programming / Script Processing / Timer Control

SENSOR SYSTEM HLK 305

RTR
Temperature
Air Humidity
CO₂
VOC
Brightness



SPECIAL SENSORS

Soil Moisture
Water Quality
Level Sensor System
Global Radiation



SMART METERING

Heat Quantity
Impulse Counter
M-Bus
Modbus



VENTILATION / HEATING

Valve Control
Ventilation Control



LIGHTING

LED Driver
LED Light

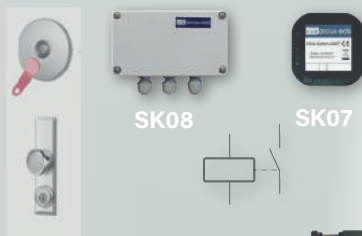


MULTIMEDIA

RS232
RS485
Gateway



Arcus-iBUTTON



VISUALIZATION

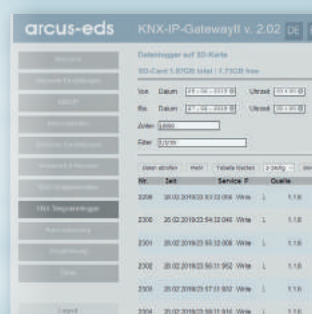
Visualization & Control
3.5" Display Touch_IT



GPS

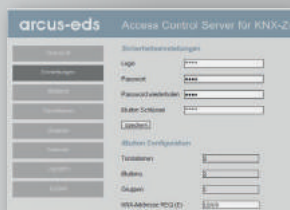
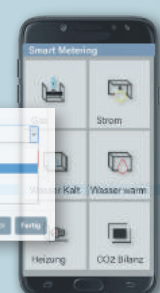


IP-Gateway 2



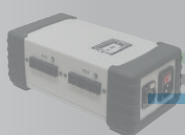
KNXnet / IP-Routing
Busmonitor
KNX Telegram Logger
exclusive µ-SD-Card

Arcus-IP-VISU

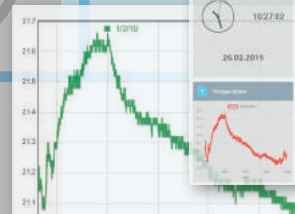


Access-Control

Arcus-IP-Workstation



KNX
Choke



KNX-IP-Gateway



KNX-GW-IP-2TE

IP-Gateway to link the ETS (PC software tool) to the KNX bus.

Description:

- 16 KNXnet / IP Tunnel
- KNXnet/IP Routing
- Busmonitor
- No ETS application required
- Configuration via web browser
- Group monitor in web browser
- Local Group Cache
- Extensive KNX telegram logger
- Logs all group addresses on the bus
- Graph view in web browser
- CSV export
- NTP-client and KNX timeserver function
- Up to 32 Events for scripts
- Events triggered by time of day or telegrams
- 256 timers configurable in groups
- Messenger client for notifications over XMPP (Jabber)
- Email notifications
- Framework for HTTP-requests
- HTML-Visualization
- µ-SD-Card slot for memory extension (exclusive SD-Card)
- Additional Power 9..32V needed
- KNX bus connection <=10mA

Security:

- SSH/SFTP ssl-encrypted
- Different passwords for different functions
- Security switch to deactivate different functions (configurable)

Open system:

- Data transfer over sftp
- Console over ssl

KNX-IP-Gateway / KNX-GW-IP-2TE

Operating temperature: -25 .. +55 °C
 DIN Rail mounted housing 2 units width (35 x 90 x 63 mm)
 IP20

Article	Product group	Article No.
KNX-GW-IP-2TE	WG 1	40400002

KNX-IP-Gateway 2



KNX-GW2-IP-2TE

IP-Gateway 2 to link the ETS (PC software tool) to the KNX bus.

Description:

- 16 KNXnet / IP Tunnel
- KNXnet/IP Routing
- Busmonitor
- No ETS application required
- Configuration via web browser
- Group monitor in web browser
- Local Group Cache
- Extensive KNX telegram logger
- Logs all group addresses on the bus
- Graph view in web browser
- CSV export
- NTP-client and KNX timeserver function
- Up to 32 Events for scripts
- Events triggered by time of day or telegrams
- 256 timers configurable in groups
- Messenger client for notifications over XMPP (Jabber)
- Email notifications
- Framework for HTTP-requests
- HTML-Visualization
- OpenVPN supported
- Node-RED preinstalled
- MQTT Server preinstalled
- 4 Kernels, 1GHz each
- 4 GByte internal memory for data storage
- 1 GByte RAM
- µ-SD-Card slot for memory extension (exclusive SD-Card)
- USB-Ports for Configuration and extensions (special drivers on request)
- Additional Power 9..32V needed
- KNX bus connection <=10mA

Security:

- SSH/SFTP ssl-encrypted
- Different passwords for different functions
- Security switch to deactivate different functions (configurable)

Open system:

- Data transfer over sftp
- Console over ssl

KNX-IP-Gateway 2 / KNX-GW2-IP-2TE

Operating temperature: -25 .. +55 °C

DIN Rail mounted housing 2 units width (35 x 90 x 63 mm)

IP20

Article	Product group	Article No.
KNX-IP-GW2-IP-2TE	WG 1	40400003



Further information about the associated extension software updates Arcus-IP-VISU and Access-Control (Arcus-iButton p. 108) is available on request.



Arcus-IP-VISU



Access-Control

System
Devices

Arcus-iButton-KNX KNX-based Presence and Access Control



KNX-iButton-SK07



KNX-iButton-SK08



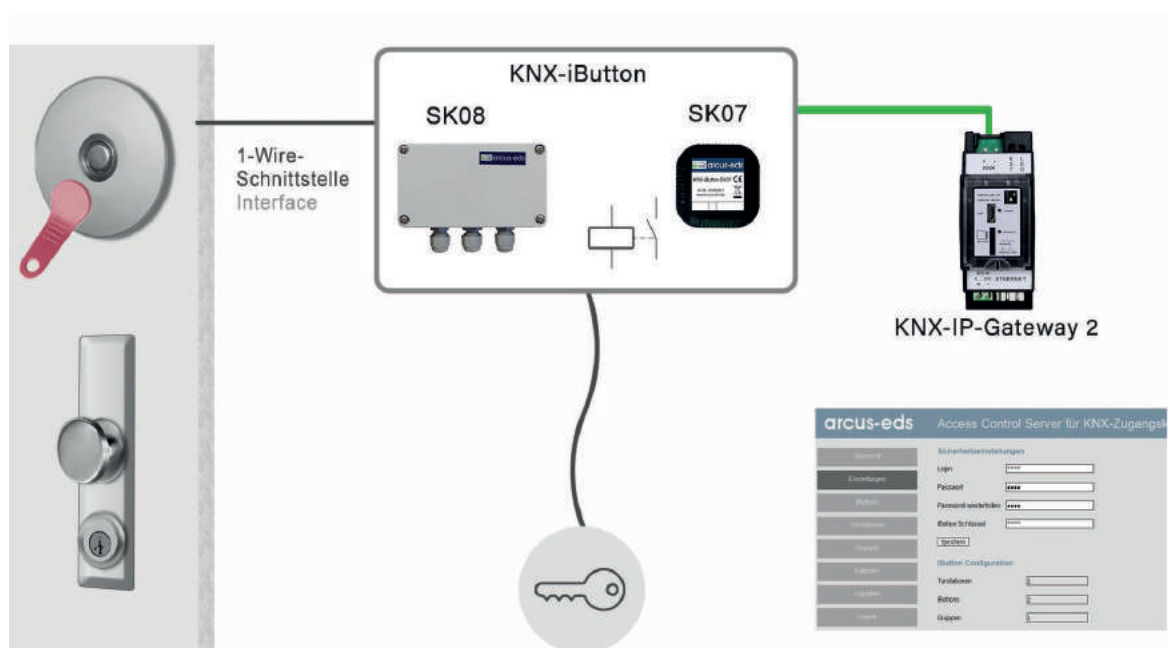
Accessory not included in delivery

Short Description:

- iButton® Door Station (Terminal) for use with Arcus-EDS Access Server
- For all iButton® with internal serial numbers
- Supports SHA256 iButtons with challenge-response handshake
- Communication with Access Server with strong encryption
- Requires an Arcus-EDS Access server for key management
- Access server manages up to 63 door stations, 256 keys and 256 groups
- Access server with access log
- Access server with (S) FTP client for external storage of access logs
- For systems with medium and low safety requirements
- Relay output for door opening
- For any contacting devices and iButton®
- Connection for illuminated iButton contacts (Bicolour red / green with KK, KA or anti-parallel connection)
- Connection for piezo signal transmitter (3V)
- No external supply voltage required
- Programming and setup via the ETS
- IP65 (SK08) or IP20 (SK07) available
- Temperature range -5 .. +40°C Humidity 5..95% RH non-condensing
- KNX bus connection <= 10mA

Applications:

- Presence control
- Personalized control
- Access control in installations without high security requirements





KNX-iButton-SK07

KNX-iButton SK07

Operating temperature: 0 .. +70 °C
Operating humidity (KNX module): 0 .. 95% r.H non-condensing

Relay output: 2x opener / closer

30 VDC, 2A
110 VDC, 0.3 A
125 VAC, 0.5 A

plastic, black

Measurements Housing: 50 x 50 x 20 mm, 58mm diagonal
(for in-wall mounting in dry interiors)

IP20

Article	Product group	Article No.
KNX-iButton-SK07	WG 1	66200007



KNX-iButton-SK08

KNX-iButton SK08

Operating temperature: 0 .. +70 °C
Operating humidity (KNX module): 0 .. 95% r.H non-condensing

Relay output: 2x opener / closer

30 VDC, 2A
110 VDC, 0.3 A
125 VAC, 0.5 A

Plastic, white
On-Wall

Measurements Housing: 115 x 65 x 55 mm

IP20

Article	Product group	Article No.
KNX-iButton-SK08	WG 1	66200008



Further information about the associated extension software update Access-Control on request



Access-Control



KNX-Drossel-DR16 (Choke)

Choke to decouple the KNX bus from the supply voltage.

Rated voltage: 24 VDC
 Rated current: 1600 mA
 Operating temperature: -25 .. +55 °C

DIN Rail mounted housing
 2 units width (35 mm)

IP20

Article	Product group	Article No.
KNX-Drossel-DR16	WG 1	66000016



SK10L-GPS-SC-L

Universal timer in the KNX bus
 Daily and weekly time switching clock
 Brightness and temperature sensor
 Time of sunset
 GPS coordinates

Operating temperature: -25 .. +55 °C
 Measured temperature range: -25 .. +55 °C
 Measured brightness range: 3 .. 220.000 lux ± 20%
 Plastic housing: (72 x 64 x 45) mm

The unit is mounted outdoors in the shade but with good view of the sky.

IP54/65

Article	Product group	Article No.
SK10L-GPS-SC-L	WG 1	66100001

KNX-IP-Workstation



The KNX-IP workstation connects all necessary hardware components required for the configuration of a KNX system with one line. The mobile unit is equipped with an IP gateway that allows the ETS software to be connected to the KNX devices via Ethernet. The IP gateway has implemented a group monitor and a telegram logger with SD card memory (max. 32GB). An address filter can be set for monitoring specific addresses.

The complete range of functions can be found in the IP Gateway documentation (7030_ex_KNX_GW_IP_2TE.pdf).

Box contents:

- KNX-IP-Workstation
- Power cord 1.5m
- Ethernet cable Cat6 2 m
- KNX connection cable 4-pin 0.5m (1x throttled, 1x unthrottled)

The workstation consists of:

- Power supply unit 27VDC / 1.5A
- KNX-Drossel-DR16 (Choke)
- KNX-GW-IP-2TE

Connections:

- Power connection 100-240 VAC / 1.1 A
- Ethernet 10/100 BaseT (10/100 Mbit/s)
- 3 throttled slots with control LED
- 3 unthrottled slots with control LED

Article	Product group	Article No.
KNX-IP-Workstation	WG 1	66000010

A

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G

H

I

Components / Replacement Parts

Z

Components / Replacement Parts

for HVAC Sensor Systems / S8 Sensor Systems / Touch_IT

arcus-eds

HVAC - Components



SK03-PT1000
white / anthracite



OFTF PT1000



HTF PT1000



ALTF1 PT1000



ALTF2 PT1000



ATF2 PT1000



ESTF PT1000



DTF PT1000



RPTF1 PT1000



RPTF2 PT1000



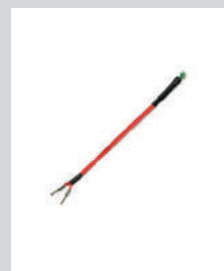
Cable AN



RPFF
(Sensirion)



RPFF-MMF
(Sensirion)



PT1000-SK07



SHT71-SK07

S8 - Components



WAQ



GLBS

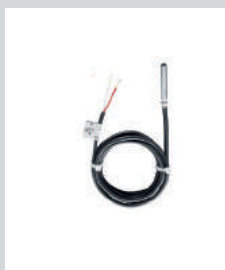


WMT

Touch_IT - Components



1 Wire DTF



1 Wire HTF

In-Wall Mounted Probes PT1000 IP20

Temperature probe PT1000 with screw-in clamps

Mounted on in-wall pattress (60/68 mm)
Compatible with switching systems (e.g. Gira, Merten) in standard 55 mm.

Measured temperature range: -25 .. +55 °C

Indoor use only
IP20



Article	Product group	Article No.
SK03-PT1000 white	WG 2	90104401
SK03-PT1000 anthracite	WG 2	90104402

Feed / Surface Mounted Probe PT1000 IP54/65

Feed temperature / surface probe

Measured temperature range: -30 .. +105 °C
Connecting cable: PVC 1.5 m

IP54/65



Article	Product group	Article No.
OFTF PT1000 PVC	WG 2	90100001

Sleeve Probe PT1000 IP54/65



Article	Article description	Product group	Article No.
HTF PT1000 PVC	Measured temperature range: -35 .. +105 °C Connecting cable: PVC 1.5 m IP54/65	WG 2	90100002
HTF PT1000 Silicone	Measured temperature range: -50 .. +180 °C Connecting cable: Silicone 1.5 m IP54/65	WG 2	90100003
HTF PT1000 PTFE	Measured temperature range: -50 .. +250 °C Connecting cable: PTFE 1.5 m IP68	WG 2	90100055



Pipe Feed Probe PT1000 IP54/65

Article	Article description	Product group	Article No.
ALTF1 PT1000 PVC	Feed temperature / pipe feed probe Measured temperature range: -35 .. +105 °C Connecting cable: PVC 1.5 m	WG 2	90100004
ALTF1 PT1000 Silicone	Feed temperature / pipe feed probe Measured temperature range: -35 .. +180 °C Connecting cable: Silicone 1.5 m	WG 2	90100005



Article	Article description	Product group	Article No.
ALTF2 PT1000	Feed temperature / pipe feed probe in plastic housing with contacting probe (PT1000) on the rear side of the terminal box. Measured temperature range: -30 .. +110 °C	WG 2	90100006



Outdoor / Damp Room Temperature Probe PT1000 IP54/65

Outdoor / damp room temperature probe in plastic housing (PT1000)

Operating range: -50 .. +90 °C

Article	Product group	Article No.
ATF2 PT1000	WG2	90100007



Screw-In Temperature Probe PT1000 IP54/65

Article	Article description	Product group	Article No.
ESTF PT1000-50 PVC	G 1/2" 50 mm V4A Operating range: -35 .. +105°C Connecting cable: PVC 1.5 m	WG 2	90100008
ESTF PT1000-100 PVC	G 1/2" 100 mm V4A Operating range: -35 .. +105 °C Connecting cable: PVC 1.5 m	WG 2	90100009
ESTF PT1000-50 Silicone	G 1/2" 50 mm V4A Operating range: -50 .. +180 °C Connecting cable: Silicone 1.5 m	WG 2	90100010
ESTF PT1000-100 Silicone	G 1/2" 100 mm V4A Operating range: -50 .. +180 °C Connecting cable: Silicone 1.5 m	WG2	90100011



Ceiling Mounted Temperature Probe PT1000

Ceiling Mounted Temperature Probe

Measured temperature range: -20 .. +90 °C
Connecting cable: ca. 135 mm

IP30

Article	Product group	Article No.
DTF PT1000	WG 2	90100012



Pendulum Room Probe for Temperature PT1000

Pendulum room probe for temperature PT1000
in protecting tube

Probe: 100 mm, M12 / 1.5 mm
Operating range: -5 .. +60 °C
Connecting cable: PVC 1.5 m

Article	Product group	Article No.
RPTF1 PT1000	WG 2	90100050



Pendulum Room Probe for Temperature PT1000

Pendulum room probe for temperature PT1000 in black plastic sphere (Ø 50 mm) for the acquisition of the temperature caused by radiant heat.

Operating range: -5 .. +60 °C
Connecting cable: PVC 1.5 m

Article	Product group	Article No.
RPTF2 PT1000	WG2	90100051



Cable

For additional PT100 Probes the following cable lengths can be ordered:
1,5 / 3 / 5 / 8 / 10 m or longer

Article	Article description	Product group	Article No.
AN-PVC- -T2x025	PVC LiYY 2 x 0,25 mm² per meter	WG 2	90200220
AN-Silicone -T2x025	Silicone SiHF 2 x 0,25 mm² per meter	WG 2	90200221
AN-PTFE -T2x100	PTFE Li-6Y6Y-OZ 2 x 1 mm² per meter	WG2	90200223



Pendulum Room Probe for Temperature and Humidity

Pendulum room temperature / humidity probe with plastic sinter filter

Probe: 100 mm
 Measured temperature range: -30 .. +80 °C
 Measured humidity range: 0 .. 100% r.H.
 Connecting cable: PVC 2 m

Article	Product group	Article No.
RPFF (Sensirion)	WG 2	90100054



Pendulum Room Probe for Temperature and Humidity (Condensation Proof)

Pendulum room humidity / temperature probe
 with metal membrane filter (condensation proof)

Probe: 100 mm
 Measured temperature range: -30 .. +80 °C
 Measured humidity range: 0 .. 100% r.H.
 Connecting cable: PVC 2 m

Article	Product group	Article No.
RPFF-MMF (Sensirion)	WG 2	90100056



Temp-probe PT1000, assembled for SK07

Measured temperature range: -50 .. +150 °C
Connecting cable: PVC 10 cm

Article	Product group	Article No.
PT1000-SK07	WG 2	99101071



Temp-Humid probe, assembled for SK07

Measured temperature range: -25 .. +80 °C
Measured humidity range: 0 .. 100% r.H.
Connecting cable: PVC 12 cm

Article	Product group	Article No.
HTU21-SK07	WG 2	99121071



Water Quality Probe pH and ORP for WAQ

Standard Measuring Electrode Units pH & ORP for SK08-WAQ

Article	Product group	Article No.
WAQ Probe Set single-rod measuring cells	WG 9	91110020



Global Radiation Probe for GLBS

Article		Product group	Article No.
GLBS -DAV6450	Global radiation probe for SK08-GLBS	WG 9	91110021
Mountkit-GLBS	Mounting kit for GLBS sensor	WG 9	91110022



Soil Moisture Probe Watermark® WMT

Article		Product group	Article No.
WMT	Watermark® - Soil Moisture Probe with Temperature Probe incl. connection cable (5 m) orderable until 50 m	WG 2	91100000
AN-WMT	per running meter	WG 2	90200500



Temperature Probe 1 Wire

Ceiling mounted temperature probe

Operating temperature: -55 .. +125 °C
 Accuracy: ± 0,5 °C
 Cable length: PVC 2.5m

Article	Product group	Article No.
1 Wire DTF	WG 2	90100013



Temperature Probe 1 Wire

Sleeve Probe

Operating temperature: -55 .. +125 °C
 Accuracy: ± 0,5 °C
 Cable length: Silicone 3 m

Article	Product group	Article No.
1 Wire HTF	WG 2	90100014

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Manufacturer

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