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KNX Product range

Controls Direct Australia

SIEMENS

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S55720-S208	AQR2576NH	Base module for CO ₂ measurement, with KNX / PL-Link, 83 x 83 mm	N1411	75
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S55720-S573	QNA2700D.BA2	IAQ multi-sensor BACnet MSTP, RESET Certified	A6V13589454	107
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Type Overview

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S55770-T347	RDG165KN	Room thermostat with KNX communications and built-in humidity sensor and humidity control, AC 24 V, for fan coil units and universal applications, heat pump, fan (1-/ 3-speed, DC), valves (2-point, DC)	N3191	54
S55770-T350	RDF800KN	Flush mount touch KNX room thermostat for 2-/4-pipe FCU with on/off output and 2x universal input, fit for both round and square conduit boxes	N3174	53
S55770-T409	RDG200KN	KNX communicating room thermostat. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air	A6V11545853	56
S55770-T410	RDG204KN	KNX communicating room thermostat with CO2 sensor. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air	A6V11545853	58
S55770-T412	RDG260KN	KNX communicating room thermostat. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air	A6V11545853	59
S55770-T413	RDG264KN	KNX communicating room thermostat with CO2 sensor. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air	A6V11545853	61
S55770-T452	RDG200KN/BK	KNX communicating room thermostat in black. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air	A6V11545853	57
S55770-T453	RDG260KN/BK	KNX communicating room thermostat in black. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air	A6V11545853	60
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Display and operation units

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Display and operation units

Pushbuttons

Pushbuttons bus transceiver module (BTM)

UP 22..



Pushbutton, i-system

- Pushbutton in pair
- Horizontal operation
- Per pushbutton selectable function
- LED for orientation light
- Labeling field
- Connectable bus coupling unit (BTM) or flush-mounted actuators via BTI



Range overview UP 22..

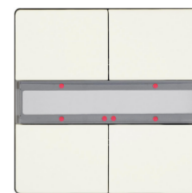
Product Title	Dimensions (WxHxD) [mm]	Stock no.	Product no.
KNX Pushbutton, single, without status LED, titanium white, i-system	55 x 55 x 11	5WG1221-2DB12	UP 221/12
KNX Pushbutton, single, with status LED, titanium white, i-system	55 x 55 x 11	5WG1221-2DB13	UP 221/13
KNX Pushbutton, double, without status LED, titanium white, i-system	55 x 55 x 11	5WG1222-2DB12	UP 222/12
KNX Pushbutton, double, with status LED, titanium white, i-system	55 x 55 x 11	5WG1222-2DB13	UP 222/13
KNX Pushbutton, triple, without status LED, titanium white, i-System	55 x 55 x 11	5WG1223-2DB12	UP 223/12
KNX Pushbutton, triple, with status LED, titanium white, i-System	55 x 55 x 11	5WG1223-2DB13	UP 223/13

The bus transceiver module (BTM) (see Chapter System Products and Accessories) or flush-mounting actuator with bus transceiver module (BTM) must be ordered separately. The matching design frame must be ordered separately.

Pushbutton, DELTA style

- Pushbutton in pair
- Vertical operation
- Per pushbutton selectable function
- LED for orientation light
- Labeling field
- Connectable bus coupling unit (BTM) or flush-mounted actuators via BTI

UP 28..

**Range overview UP 28..**

Product Title	Dimensions (WxHxD) [mm]	Stock no.	Product no.
KNX Pushbutton, single, with status LED, titanium white, DELTA style	68 x 68 x 14	5WG1285-2DB13	UP 285/13
KNX Pushbutton, double, with status LED, titanium white, DELTA style	68 x 68 x 14	5WG1286-2DB13	UP 286/13
KNX Pushbutton, double, with status LED, platinum metallic, DELTA style	68 x 68 x 14	5WG1286-2DB43	UP 286/43
KNX Pushbutton, quadruple, with status LED, titanium white, DELTA style	68 x 68 x 14	5WG1287-2DB13	UP 287/13

The bus transceiver module (BTM) (see Chapter System Products and Accessories) or flush-mounting actuator with bus transceiver module (BTM) must be ordered separately. The matching design frame must be ordered separately. See Chapter Display and Operation Units - Pushbutton accessories.

KNX Pushbutton, triple, with status LED, with scene controller, with room temperature sensor, titanium white, i-system

- Pushbutton in 3 pairs
- Horizontal operation
- Per pushbutton selectable function, scene controller
- LED for orientation light
- Labeling field
- Temperature sensor
- Connectable bus coupling unit (BTM) or flush-mounted actuators via BTI

UP 223/14



Data sheet	A6V10416093
Dimensions (W x H x D)	55 x 55 x 11 mm
Warranty	24 Months

Stock no.	Product no.
5WG1223-2AB14	UP 223/14

The bus transceiver module (BTM) (see Chapter System Products and Accessories) or flush-mounting actuator with bus transceiver module (BTM) must be ordered separately. The matching design frame must be ordered separately. See Chapter Display and Operation Units - Pushbutton accessories.

UP 237K11



KNX Temperature controller, titanium white

- Integrated room temperature sensors
- Control can be set as a two-point control and/or continuous-action control (P or PI algorithm), for heating only, for cooling only, or for heating and cooling mode
- Operating modes that can be switched via KNX: comfort mode, pre-comfort mode, energy-saving mode and frost or heat protection mode
- Presence pushbutton to locally switch between comfort and pre-comfort mode or comfort and energy-saving mode and to extend comfort mode after operating energy-saving or protection mode
- Pushbutton for switching over between manual and automatic mode
- The room temperature setpoint value for comfort mode can be set via an interchangeable rotary button (+/-) on the controller and via the KNX
- Basic setpoint of the room temperature for comfort mode which can be set via the KNX
- Setpoint value for comfort mode in °C which can be set via an interchangeable rotary button on the controller
- Adjustable dead zone between the heating setpoint and the cooling setpoint for comfort mode
- Two-level heating or cooling
- Output of the control variable(s) either as an on/off switch command or as a positioning command in the range of 0...100 %
- 5 LEDs to display manual mode and the current operating modes
- 4 LEDs to display heating/cooling valve open, dew point alarm and open window
- For plugging onto a bus transceiver module (BTM) or a flush-mounting actuator with bus transceiver module (BTM)
- Titanium white

The bus coupling module (BTM) (see chapter Systemproducts and Accessories) or flush-mounting actuator with bus coupling (BTM) must be ordered separately. The matching design frame must be ordered separately. See chapter Display and Operation Units - Pushbutton Accessories.

Data sheet	A6V10416253
Dimensions (W x H x D)	55 x 55 x 16 mm
Warranty	24 Months

Stock no.	Product no.
5WG1237-2KB11	UP 237K11

The bus transceiver module (BTM) (see Chapter System Products and Accessories) or flush-mounting actuator with bus transceiver module (BTM) must be ordered separately. The matching design frame must be ordered separately. See Chapter Display and Operation Units - Pushbutton accessories.

UP 227



KNX Room Control Unit, i-system

- Multifunctional display-/control panel for KNX with Dot-Matrix LCD display 96 x 128 pixels
- 8 capacitive touch buttons for horizontal operation
- For the display and control of at least 10 adjustable room control functions: Switching toggle/On/Off, Dimming, Door bell function On/Off, Solar protection control; send 1 Byte/2 Byte value; display 1 Bit/1 Byte/2 Byte value; Forced control; display text messages; warning and alarm messaging; recall and save scenes; warning and alarm messaging
- Room control functions lockable via KNX-bus
- Green/red LED as orientation light, as status indication, as a response to pressing a button respectively to the signalling of alarm reports
- A signaler for acoustical alarm reports respectively as a status of the touch operation
- Integrated room temperature sensor
- Evaluation and weighting of an external inside temperature sensor
- Room temperature control configurable as two-step control and/or continuous control, for exclusive heating operation, exclusive cooling operation or heating and cooling operation
- Selectable operating modes over the KNX: Comfort, Pre-comfort, Energy-savings and protection
- Local indication
 - Of the active operating modes or automatic- respectively manual mode
 - Inside temperature or outside temperature
 - Heating or cooling mode
 - Dew point alarm
 - Open window
- Local switching between
 - Manual- and automatic mode
 - Comfort, pre-comfort, energy-saving- and protection mode
- Adjustable time-limited extension of the comfort mode
- Adjustable room temperature setpoint shifting for comfort mode
- Via KNX set basic setpoint value of the room temperature for comfort mode
- An outside temperature based temperature setpoint value tracing in the cooling operation
- Adjustable dead zone between the heating setpoint value and the cooling setpoint value for comfort mode
- Transmission of controller output(s) either as On/Off switching commands or as control commands in the range 0...100 %
- Local display of the manually selected fan rotational speed respectively of the automatic adjustment of the fan rotational speed
- Adjustable fan rotational speed respectively automatic adjustment of the fan rotational speed on the controller
- Weekly schedule programme for controller- operating modes, automatic mode and at the least 8 room control functions
- At the least 40 schedule tasks and Display and set of the date and time
- User control of LCD background lighting and Background color
- Display system settings and room temperature controller in the languages: German, English, French, Italian od Spanish
- User setting of at least 3 operating languages also Integrated bus coupling unit, bus connection via bus terminal possible
- Flush mounted device for the mounting in an flush wall box Ø 60 mm, for fixing on the mounting plate AQR2500NF via lateral springs (separately specified)

The matching design frame must be ordered separately. See chapter Display and Operation Units - Pushbuttons bus transceiver module (BTM).

The mounting plate AQR2500.. must be ordered separately.

Data sheet	A6V10416250
Dimensions (W x H x D)	55 x 55 x 37.2 mm
Warranty	24 Months

Stock no.	Product no.
5WG1227-2AB11	UP 227

UP 227



KNX Room Control Unit, i-system

- Multifunctional display-/control panel for KNX with Dot-Matrix LCD display 96 x 128 pixels
- 8 capacitive touch buttons for horizontal operation
- For the display and control of at least 10 adjustable room control functions: Switching toggle/On/Off, Dimming, Door bell function On/Off, Solar protection control; send 1 Byte/2 Byte value; display 1 Bit/1 Byte/2 Byte value; Forced control; display text messages; warning and alarm messaging; recall and save scenes; warning and alarm messaging
- Room control functions lockable via KNX-bus
- Green/red LED as orientation light, as status indication, as a response to pressing a button respectively to the signalling of alarm reports
- A signaler for acoustical alarm reports respectively as a status of the touch operation
- Integrated room temperature sensor
- Evaluation and weighting of an external inside temperature sensor
- Room temperature control configurable as two-step control and/or continuous control, for exclusive heating operation, exclusive cooling operation or heating and cooling operation
- Selectable operating modes over the KNX: Comfort, Pre-comfort, Energy-savings and protection
- Local indication
 - Of the active operating modes or automatic- respectively manual mode
 - Inside temperature or outside temperature
 - Heating or cooling mode
 - Dew point alarm
 - Open window
- Local switching between
 - Manual- and automatic mode
 - Comfort, pre-comfort, energy-saving- and protection mode
- Adjustable time-limited extension of the comfort mode
- Adjustable room temperature setpoint shifting for comfort mode
- Via KNX set basic setpoint value of the room temperature for comfort mode
- An outside temperature based temperature setpoint value tracing in the cooling operation
- Adjustable dead zone between the heating setpoint value and the cooling setpoint value for comfort mode
- Transmission of controller output(s) either as On/Off switching commands or as control commands in the range 0...100 %
- Local display of the manually selected fan rotational speed respectively of the automatic adjustment of the fan rotational speed
- Adjustable fan rotational speed respectively automatic adjustment of the fan rotational speed on the controller
- Weekly schedule programme for controller- operating modes, automatic mode and at the least 8 room control functions
- At the least 40 schedule tasks and Display and set of the date and time
- User control of LCD background lighting and Background color
- Display system settings and room temperature controller in the languages: German, English, French, Italian and Spanish
- User setting of at least 3 operating languages also Integrated bus coupling unit, bus connection via bus terminal possible
- Flush mounted device for the mounting in an flush wall box Ø 60 mm, for fixing on the mounting plate AQR2500NF via lateral springs (separately specified)

The matching design frame must be ordered separately. See chapter Display and Operation Units - Pushbuttons bus transceiver module (BTM).

The mounting plate AQR2500.. must be ordered separately.

Data sheet	A6V10416250
Dimensions (W x H x D)	55 x 55 x 37.2 mm
Warranty	24 Months

Stock no.	Product no.
5WG1227-2AB11	UP 227

**Room operator unit KNX with temperature sensor, configurable touchkeys,
 LED display, white**

QMX3.P02



Functions:

- Temperature sensor
- Configurable touchkeys with LED display
- Switching and control of lighting, blinds, scenes
- Window for labels
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Power consumption	Quiet power: 0.18 W
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Display	LED
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.19 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H107	QMX3.P02

Display and operation units

Multifunction device

Wall-mounted

QMX3.P34



Room operator unit KNX with temperature sensor, segmented backlit display, touchkeys, white ** In phase-out **

Functions:

- Temperature sensor
- Segmented backlit display and touchkeys
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO₂ concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO₂)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO₂)
- Setpoint for room temperature and relative humidity and CO₂ concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Power consumption	Quiet power: 0.18 W
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.21 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H105	QMX3.P34

Room operator unit KNX with temperature sensor, segmented backlit display, touchkeys, black ** In phase-out **

QMX3.P34-1BSC



Functions:

- Temperature sensor
- Segmented backlit display and touchkeys
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO₂ concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO₂)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO₂)
- Setpoint for room temperature and relative humidity and CO₂ concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Warranty	24 Months

Stock no.	Product no.
S55624-H126	QMX3.P34-1BSC

Display and operation units

Multifunction device

Wall-mounted

QMX3.P37



Room operator unit KNX with temperature sensor, segmented backlit display, configurable touchkeys, LED display, white

Functions:

- Temperature sensor
- Segmented backlit display and touchkeys
- Configurable touchkeys with LED display
- Switching and control of lighting, blinds, scenes
- Window for labels
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO₂ concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO₂)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO₂)
- Setpoint for room temperature and relative humidity and CO₂ concentration adjustable via KNX

Data sheet	N1602
Operating voltage	DC 21 V
Voltage supply	KNX bus
Power consumption	Quiet power: 0.24 W
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Display	LED
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.216 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H108	QMX3.P37

Room operator unit KNX with temperature sensor, segmented backlit display, configurable touchkeys, LED display, black

QMX3.P37-1BSC



Functions:

- Temperature sensor
- Segmented backlit display and touchkeys
- Configurable touchkeys with LED display
- Switching and control of lighting, blinds, scenes
- Window for labels
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Warranty	24 Months

Stock no.

Product no.

S55624-H129

QMX3.P37-1BSC

Display and operation units

Multifunction device

Wall-mounted

QMX3.P44



Room operator unit KNX with sensors for temperature, humidity, segmented backlit display, touchkeys, white ** In phase-out **

Functions:

- multisensor for temperature and humidity
- Segmented backlit display and touchkeys
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO₂ concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO₂)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO₂)
- Setpoint for room temperature and relative humidity and CO₂ concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Measuring range	NTC: 0...50 °C Humidity: 10%...95 % r.F.
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.21 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H143	QMX3.P44

Room operator unit KNX with sensors for temperature, humidity, segmented backlit display, touchkeys, black ** In phase-out **

QMX3.P44-1BSC



Functions:

- Multisensor for temperature and humidity
- Segmented backlit display and touchkeys
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Operating voltage	DC 24 V
Voltage supply	KNX bus
Power consumption	0.24 VA
Measuring range	NTC: 0...50 °C Humidity: 10%...95 % r.F.
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Display	Segment LCD
Communication	KNX PL-Link KNX S-Mode
Connection cable	1.0 mm ² ; 0 m
Ambient temperature, operation	0...50 °C
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.21 kg
Warranty	24 Months

Stock no.

Product no.

S55624-H144

QMX3.P44-1BSC

Display and operation units

Multifunction device

Wall-mounted

QMX3.P74



Room operator unit KNX with sensors for temperature, humidity, CO₂, segmented backlit display, touchkeys, white ** In phase-out **

Functions:

- multisensor for temperature, humidity and CO₂
- Segmented backlit display and touchkeys
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO₂ concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO₂)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO₂)
- Setpoint for room temperature and relative humidity and CO₂ concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Power consumption	Quiet power: 0.36 W
Measuring range	400...10000 ppm CO ₂
Sensing element	Temperature sensor, CO ₂ sensor, relative humidity sensor
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.22 kg
Warranty	24 Months

Stock no. Product no.

S55624-H106

QMX3.P74

Web server for Synco devices

OZW772..

Web server OZW772 allows for remote plant control and monitoring via the web.



- Operate web browser via PC/laptop and Smartphone
- Operate ACS (PC/laptop with ACS plant operating software)
- Connections: USB and Ethernet
- Display fault messages in the web browser
- Send fault messages to a maximum of 4 e-mail recipients
- Periodically send system reports to e-mail recipients
- Visualize the plants in the web browser based on standard plant diagrams and customized plant web pages
- Acquire and display consumption data
- Send consumption data file to 2 email recipients
- Function "Energy indicator" to monitor data points for energy-related limit values, or "Green limits"
- Web services for external applications via Web API (Web Application Programming Interface)
- Encrypted with https and TLS for e-mails
- Record of trends, display and dispatch to 2 e-mail recipients
- Integration up to 237 S-Mode data points of KNX devices (not OZW772.01)
- Direct commissioning with web browser or ACS service tool
- Easy and secure remote access and plant overview with Synco IC Remote Access - a web-based service for secure remote access (www.siemens-syncoic.com)

Internet portal Synco IC offers simple and secure access to your plants

- Simple and fast set up of access via the Internet (fixed net- or mobile router)
- The portal provides additional functions:
 - Manage one or multiple plants
 - Central user management
 - Display of plant overview, state of Energy indicators and alarms
 - Send alarm notifications per e-mail
 - Secured communications through encryption (https)

Web servers OZW772.01, OZW772.04, OZW772.16, OZW772.250 can connect 1, 4, 16, or 250 KNX devices from the product ranges Synco 700, Synco RXB, and RDG/RDF room thermostats, and the QAX Synco living central apartment units.

Data sheet	N5701
Operating voltage	Power pack: AC 230 V Web server: DC 24 V
Communication	KNX TP (twisted pair) Ethernet, RJ45 plug socket (shielded) USB V2.0
Mounting	On DIN rails With Screws
Degree of protection	IP30
Dimensions (W x H x D)	87.5 x 90 x 40 mm

Range overview OZW772..

Product Title	Stock no.	Product no.
Web server for 1 Synco device	BPZ:OZW772.01	OZW772.01
Web server for 4 Synco devices	BPZ:OZW772.04	OZW772.04
Web server for 16 Synco devices	BPZ:OZW772.16	OZW772.16
Web server for 250 Synco devices	BPZ:OZW772.250	OZW772.250

N 152/01



KNX IP Control Center

Visualisation controller for full-graphic visualizations on web-compatible end devices such as PCs, tablets and smart phones with a standard web browser.

For communication between KNX devices and PCs and, in connection with a LAN-/WLAN modem or DSL router, for remote access to a KNX installation, for usage as an interface for the ETS 3/4/5 and as an interface for a visualization, with usage of the KNXnet/IP protocol, with the following simultaneously usable functions:

- Web server for operating and monitoring up to 1250 statuses and values transmitted by the KNX network, which can be displayed using a standard browser on PCs, tablets, or smartphones connected to the IP network
- Special web-configuration page for a firmware update, to set the IP configuration, SMTP server, security settings, password protection, certificates, Sonos module, API connection and restart
- Graphical web editor for a creation of fully graphical visualization with control and display elements, configurable in various styles
- Smart editor for the creation of a visualisation, tuned for mobile browsers, smartphones, tablets with control and display elements, configurable in various styles and layouts
- Annual timer, with astronomical calendar, for 300 time switch schedules with up to 30 time switch commands per time switch schedule
- Scene module with up to 5000 scenes or events
- Chart module for recording and reporting of up to 10 data points
- Monitoring module for monitoring and storage of up to 1000 events into a ring buffer
- IP interface for control of up to 20 IP-devices via up to 20 TCP/UDP commands per IP-device
- Fully graphical logic module with up to 1000 logic functions
- Alarm function for up to 250 different alarms
- E-mail function, with up to 20 contacts, for transmission of chart data from chart module, logged data from monitoring module or alarm data
- Data point management for viewing, managing, editing and categorizing all available data points
- Module for controlling SONOS loudspeakers
- Module for controlling the Philips HUE LED lighting system
- Ethernet interface 10/100 Mbits/s with RJ45 socket for connection to the IP network using the Internet Protocol
- 2 LED displays for IP connection/communication and for error messages
- Integrated bus connector and bus terminal for connection to a KNX network
- Power supply of the electronics by an external voltage source for AC/DC 24 V, 50 mA
- Series installation device for mounting on support rails TH35 DIN EN 60715

Data sheet	A6V10417875
Dimensions (W x H x D)	72 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	4 MW
Warranty	24 Months

Stock no.	Product no.
5WG1152-1AB01	N 152/01

Output devices

Binary output devices	Modular switching actuators/DIN rail mounted devices	24
	Switching actuators/DIN rail mounted devices	26
	Combination switching actuators	31

Output devices

Binary output devices

Modular switching actuators/DIN rail mounted devices

N 5../11



Switch actuator, main module

- 3 Floating relay contacts
- Rated contact voltage, AC 230 V
- Interface for connecting a switching actuator submodule and software for controlling up to 4 switching actuator submodules
- Selectable 3-phase switching function (simultaneous switching of 3 outputs)
- Direct operation (local operation)
- LED for indicating direct operation
- LED for indicating the selected device
- LED for status indication per output
- Selectable 1- to 3-stage fan speed control function
- Function for controlling thermo-electrical drives
- Integrated 8-bit scene control
- Time functions: off delay, on delay, timer mode (automatic stairwell switch), night mode (lighting for cleaning), Warning of impending off
- Logical functions: Positively driven operation, Logic function (2 objects), Can be inverted per output (NO contact/NC contact)
- Per channel: transmitting status, Operating hours counter with limit monitoring, Switching cycle counter with limit monitoring, Load current recording, Load current monitoring
- Power supply for its own electronics and for the electronics of the connected switching actuator submodules via the bus voltage
- Bus connection via bus terminal

Range overview N 562/11, N 512/11, N 513/11

Product Title	Dimensions (WxHxD) [mm]	Dimension width (1 MW = 18 mm)	Stock no.	Product no.
KNX Switch actuator, main module, 3 x AC 230/400 V, 16 AX, C load, Load-check	54 x 90 x 60	3 MW	5WG1512-1AB11	N 512/11
KNX Switch actuator, main module, 3 x AC 230/400 V, 20 AX, C load, Load-check	54 x 90 x 60	3 MW	5WG1513-1AB11	N 513/11
KNX Switch actuator, main module, 3 x AC 230/400 V, 10 AX, C load, Load-check	54 x 90 x 60	3 MW	5WG1562-1AB11	N 562/11

Switch actuator, submodule

- 3 Floating relay contacts
- Rated contact voltage, AC 230 V
- Interface for connecting a switching actuator submodule and software for controlling up to 4 switching actuator submodules
- Selectable 3-phase switching function (simultaneous switching of 3 outputs)
- Direct operation (local operation via main module)
- LED for indicating direct operation for each output via main module
- Selectable 1- to 3-stage fan speed control function
- Function for controlling thermo-electrical drives
- Integrated 8-bit scene control
- Time functions: off delay, on delay, Timer mode (automatic stairwell switch), Night mode (lighting for cleaning), Warning of impending off
- Logical functions: Positively driven operation, Logic function (2 objects), Can be inverted per output (NO contact/NC contact)
- Per channel: transmitting status, Operating hours counter with limit monitoring, Switching cycle counter with limit monitoring, Load current recording, Load current monitoring
- Power supply for its own electronics and for the electronics of the connected switching actuator submodules via the bus voltage
- Bus connection via bus terminal



Range overview N 562/21, N 512/21, N 513/21

Product Title	Dimensions (WxHxD) [mm]	Dimension width (1 MW = 18 mm)	Stock no.	Product no.
KNX Switch actuator submodule, 3 x AC 230/400 V, 16AX, C load, load-check	54 x 90 x 60	3 MW	5WG1512-1AB21	N 512/21
KNX Switch actuator submodule, 3 x AC 230/400 V, 20 AX, C load, load-check	54 x 90 x 60	3 MW	5WG1513-1AB21	N 513/21
KNX Switch actuator submodule, 3 x AC 230/400 V, 10 AX, C load, Load-check	54 x 90 x 60	3 MW	5WG1562-1AB21	N 562/21

Output devices

Binary output devices

Switching actuators/DIN rail mounted devices

2

N 567/22



KNX Switch actuator, 16 x AC 230 V, 10 A

- One potential-free relay contact per output channel
- Electronics powered via an integrated power supply unit for AC 230 V
- Pushbutton for switching between bus operation and local operation
- A yellow LED indicating local operation
- 1 red LED per output channel to indicate switch status
- One pushbutton per output channel to activate the output through a UM-function in local operating mode
- Operational with an AC 230 V supply, (even with no bus voltage and faulty or not activated bus communication)
- Choice between identical or individually parameterized outputs
- Operating mode selectable for each channel (normal operation, time switch operation)
- Adjustable switching on/off delay
- Selectable logic link (AND/OR) between two communication objects and presettable logic operator for bus voltage return
- Possibility to add an additional night operation object per output channel for time limited activation of output (lighting) at night
- Selectable warning signal prior to imminent switching off in form of three times short off/on switching (flashing)
- Possibility to add one additional status indicator object per output channel, sending of status objects on request and/or automatically after change
- Possibility to add additional object to drive the integrated 8-bit scene controller, integrated 8 bit scene control and linking each output channel to up to 8 scenes
- Unchanged switch state for all output channels in case of power failure
- Selectable switch state after return of power for each output channel
- Integrated bus coupling units, bus connection via bus terminal or contact system to data rail, only 50% of standard busload
- Modular installation devices for mounting on TH35 EN 60715 mounting rail
- 16 Floating relay contacts
- Rated contact current 10 A

Data sheet	A6V10416196
Rated voltage	AC 230 V
Rated current	10 A
Number of channels	16
Dimensions (W x H x D)	144 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	8 MW
Warranty	24 Months

Stock no. Product no.

5WG1567-1AB22 **N 567/22**

The optional data rail must be ordered separately. See chapter System Products and Accessories - Data rails.



Switching actuator

- One relay contact per output as switching element
- Rated contact operating voltage AC 230 V
- Rated contact frequency: 50/60 Hz
- Per output with mechanical display of the switching status via slide switches, which can also be used for direct manual operation of the switching output
- Maintenance-free terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5 ... 2.5 mm²
- One phase terminal per output
- Bus-powered electronics
- Integrated bus coupling unit, bus connection via bus terminal block
- Red LED for display of the activation of the addressing mode as well as the operational readiness
- Housing: plastic, color RAL 7035 (light grey), N-system
- DIN rail mounted device for mounting on rail TH35 according to DIN EN 60715
- Type of protection: IP 20

Per output

- Selectable operating mode (normal mode, time switch mode, flashing mode)
- Selectable relay mode (NC/NO)
- Variable On and Off delay times
- Two selectable logic operations (AND, OR, NAND, NOR, XOR, FILTER, TRIGGER)
- Selectable sending of status objects on request, cyclically and/or automatically after a change
- Selectable switching state on bus voltage failure
- Selectable start value of the switching object on bus voltage recovery
- Optional addition of a night mode object for time-limited switching On of the output, i.e. the illumination, at night
- Variable On period at night or time switch mode
- Selectable addition of an object to change the On period at night or time switch mode
- Selectable post-triggering (1x, 2x, 3x, 4x, 5x) of the On period in time switch mode
- Selectable warning signal prior to imminent switching-off by brief off and on switching (flashing) at night or in time switch mode and/or via an optional warning object

Per output selectable functions:

- For manual override ON
 - For permanent OFF switching
 - Blocking of the output
 - For switching on or off in forced mode
 - Counting of operating hours and threshold monitoring
 - Counting of load cycles and threshold monitoring
 - Integrated 8-bit scene control with up to 8 scenes per output
-
- Construction site function switching
 - Object for monitoring of device function
 - Object for targeted retrieval of status values

Output devices

Binary output devices

Switching actuators/DIN rail mounted devices

2

5WG1530-1DB31

KNX Switching actuator 4 x AC 230 V, 6 AX, C-Load



Rated contact current according to DIN EN 60669: 6 AX (70 µF fluorescent lamp load), 10 A (resistive load)

Data sheet

A6V11252211

Dimensions (W x H x D)

72 x 90 x 60 mm

Dimension width (1 MW = 18 mm)

4 MW



Stock no.

Product no.

5WG1530-1DB31

5WG1530-1DB31

5WG1530-1DB51

KNX Switching actuator 8 x AC 230 V, 6 AX, C-Load



Rated contact current according to DIN EN 60669: 6 AX (70 µF fluorescent lamp load), 10 A (resistive load)

Data sheet

A6V11252211

Dimensions (W x H x D)

144 x 90 x 60 mm

Dimension width (1 MW = 18 mm)

8 MW



Stock no.

Product no.

5WG1530-1DB51

5WG1530-1DB51

5WG1530-1DB61

KNX Switching actuator 12 x AC 230 V, 6 AX, C-Load



Rated contact current according to DIN EN 60669: 6 AX (70 µF fluorescent lamp load), 10 A (resistive load)

Data sheet

A6V11252211

Dimensions (W x H x D)

216 x 90 x 60 mm

Dimension width (1 MW = 18 mm)

12 MW



Stock no.

Product no.

5WG1530-1DB61

5WG1530-1DB61

KNX Switching actuator 4 x AC 230 V, 10 AX, C-Load

5WG1532-1DB31

Rated contact current according to DIN EN 60669: 10 AX (140 µF fluorescent lamp load), 10 A (resistive load)

Data sheet	A6V11252211
Dimensions (W x H x D)	72 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	4 MW



Stock no.	Product no.
5WG1532-1DB31	5WG1532-1DB31

KNX Switching actuator 8 x AC 230 V, 10 AX, C-Load

5WG1532-1DB51

Rated contact current according to DIN EN 60669: 10 AX (140 µF fluorescent lamp load), 10 A (resistive load)

Data sheet	A6V11252211
Dimensions (W x H x D)	144 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	8 MW



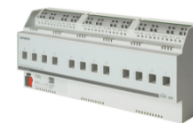
Stock no.	Product no.
5WG1532-1DB51	5WG1532-1DB51

KNX Switching actuator 12 x AC 230 V, 10 AX, C-Load

5WG1532-1DB61

Rated contact current according to DIN EN 60669: 10 AX (140 µF fluorescent lamp load), 10 A (resistive load)

Data sheet	A6V11252211
Dimensions (W x H x D)	216 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	12 MW



Stock no.	Product no.
5WG1532-1DB61	5WG1532-1DB61

Output devices

Binary output devices

Switching actuators/DIN rail mounted devices

2

5WG1534-1DB31



KNX Switching actuator 4 x AC 230 V, 16/20 AX, C-Load

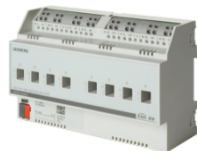
Rated contact current according to DIN EN 60669: 16 AX / 20 AX (200 µF fluorescent lamp load)

Data sheet	A6V11252211
Dimensions (W x H x D)	72 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	4 MW



Stock no.	Product no.
5WG1534-1DB31	5WG1534-1DB31

5WG1534-1DB51



KNX Switching actuator 8 x AC 230 V, 16/20 AX, C-Load

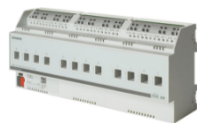
Rated contact current according to DIN EN 60669: 16 AX / 20 AX (200 µF fluorescent lamp load)

Data sheet	A6V11252211
Dimensions (W x H x D)	144 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	8 MW



Stock no.	Product no.
5WG1534-1DB51	5WG1534-1DB51

5WG1534-1DB61



KNX Switching actuator 12 x AC 230 V, 16/20 AX, C-Load

Rated contact current according to DIN EN 60669: 16 AX / 20 AX (200 µF fluorescent lamp load)

Data sheet	A6V11252211
Dimensions (W x H x D)	216 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	12 MW



Stock no.	Product no.
5WG1534-1DB61	5WG1534-1DB61

N 502/02



2



KNX Combi switching actuator 8 x AC 230 V, 16 A, 8 x binary inputs

- 8 inputs AC/DC 12...230 V
- 8 relay contact outputs
- Rated contact voltage AC 230 V
- Rated contact operating current 16 A, p.f. = 1
- Electronics power supply via an integrated power supply unit for AC 230 V
- Device functional even without bus connection or if bus voltage absent or bus communication interrupted or not yet activated
- Push button to switch between bus and direct mode
- Push button for each output to switch the output in direct mode via a toggling function by a short actuation and for changing the output mode between remote control relay and time switch relay by holding down the push button for some seconds
- Device preset at the factory for direct switching of an output through a toggling function via the input of the same name
- Selectable function for each input when using the Engineering Tool Software (ETS):
 - Switching status / binary value transmission
 - Switching, short / long operation
 - Single button dimming, single button sun protection control, 1-button group control (sequence control)
 - 1-bit scene control
 - 8-bit scene control, 8-bit value, edge-triggered, 8-bit value, short / long operation
 - 16-bit floating point value, edge-triggered, 16-bit value, short / long operation, 16-bit value, edge-triggered, 16-bit floating point value, short / long operation
- Selectable function for each pair of inputs:
 - 2-button dimming with stop telegram or with cyclical sending
 - 2-pushbutton shutter/blind control
- Selectable blocking / releasing of each input via a corresponding blocking object
- Sending of the input objects after a change of status
- Selectable logic operation (AND/OR) for one input with a further communication object and with variable start value of the logic operation at bus voltage recovery
- Setting by means of the ETS, whether all outputs are to be configured identically or individually
- Selectable mode for each output (normal mode, time switch mode)
- Optional addition of a night mode object for each output for time-limited switching On of the output (and hence the illumination) at night
- Variable On and Off delay times for each output
- Variable On period in night mode or in time switch mode
- Selectable warning signal prior to imminent switching-off by means of three-times short off and on switching (flashing) in night mode or in time switch mode
- Optional status object per output for status reporting
- Sending of status objects on request and/or automatically after a change
- Integrated 8-bit scene control and linking of each output with up to 8 scenes
- Selectable switching state for each output at mains or bus power failure as well as after bus or mains voltage recovery
- Integrated bus coupling unit with only half a standard bus load
- Bus connection via bus terminal or contact system to data rail
- Modular installation devices for mounting on TH35 EN 60715 mounting rail

Data sheet	A6V10416148
Rated voltage	AC 230 V
Rated current	16 A
Number of channels	8
Number of inputs potentialfree	8
Dimensions (W x H x D)	144 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	8 MW
Warranty	24 Months

Stock no.	Product no.
5WG1502-1AB02	N 502/02

Input devices

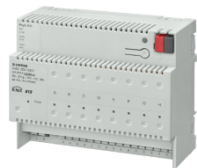
Binary input devices	Binary inputs/DIN rail mounted devices	34
	Pushbutton interface	35
	Combination actuators	36

Input devices

Binary input devices

Binary inputs/DIN rail mounted devices

N 26..E/..1



Binary input device

- Length of unshielded connecting cable per input of max. 100 m
- LED per binary input for status display
- Input functions: Telegram rate limitations, configurable debounce time, locking of inputs using blocking objects, adjustable duration of long button press, Configurable contact type (NO contact/NC contact)
- Transmission parameters: Adjustable cyclic transmission, Configurable transmission in the event of changes to the input, Configurable transmission in the event of bus voltage recovery
- Short/long button press can be evaluated
- Switching on/off/over
- Value transmission 8 bit, 16 bit
- Dimming: single button dimming, 2-pushbutton dimming with stop telegram (4 bit)
- 1-/2-pushbutton shutter/blind control
- Store and call up scene, 1-bit in conjunction with scene module
- Pulse counting with/without limit value monitoring (8 bit, 16 bit, 32 bit)
- 1-pushbutton group control
- Integrated power supply for AC 230 V to supply the electronics
- Integrated bus coupling units, Bus connection via contact system to data rail, bus connection via bus terminal

Range overview N26..E/..1

Product Title	Dimension width (1 MW = 18 mm)	Stock no.	Product no.
KNX Binary input device 16 x potential-free contacts	6 MW	5WG1262-1EB11	N 262E11
KNX Binary input device 16 x AC 12...230 V / DC 12...115 V	6 MW	5WG1263-1EB11	N 263E11

Pushbutton interface

- Inputs / outputs each configurable for potential-free contacts or for control of an LED
- Generation of the sensing voltage for potential-free contacts
- For inserting into flush-mounting switch and socket boxes with $\varnothing = 60$ mm
- Inputs max. 10 m cable length, unshielded, twisted
- Input functions: Locking of inputs using blocking objects, Adjustable duration of long button press, Configurable contact type (NO contact/NC contact)
- Transmission parameters: Adjustable cyclic transmission, Configurable transmission in the event of bus voltage recovery
- Short/long button press can be evaluated
- Switching on/off/toggle
- Value transmission 8 Bit, 16 Bit
- Single button dimming
- 2-pushbutton dimming with stop telegram (4 bit)
- 1-/2-pushbutton shutter/blind control
- Szene store and call up scene: 8 Bit, in conjunction with scene module 1 Bit
- Pulse counting with/without limit value monitoring (8 bit, 16 bit, 32 bit)
- 1-pushbutton group control
- Bus-powered electronics
- Integrated bus coupling unit, bus connection via bus terminal

UP 220/..



3

Range overview UP 220/..

Product Title	Stock no.	Product no.
KNX Pushbutton interface 2 x potential-free contact, output for LED control	5WG1220-2AB21	UP 220/21
KNX Pushbutton interface 4 x potential-free contact, output for LED control	5WG1220-2DB31	UP 220D31

Recommendation: LED light insert, for switches and pushbutton inserts, red, 1.5 V DC, 1 mA

Input devices
 Binary input devices
 Combination actuators

N 501/01



KNX Combination blind actuator, 4 x AC 230 V, 6 A, 8 x binary inputs

- 8 inputs for DC or AC in the range from 12 to 230 V
- 8 relay contact outputs locked in pairs against each other for controlling 4 x AC 230 V sunblind drives
- Contact rated voltage AC 230 V
- Contact rated current 6 A, p.f. = 1
- Electronics powered by a AC 230 V integrated power supply
- Device functional even without bus connection or if the bus communication fails
- Preset on delivery for direct output control for each blind button function via momentary contact switches connected to the inputs
- Key for switching between bus and direct mode
- Button for each relay contact output, for switching the output in direct mode
- Selectable function for each input when using the ETS:
 - Switching status, send binary value
 - Switching on leading edge, switching Short/Long
 - 1-pushbutton dimming, sunblind control, group control
 - 1-bit/8-bit scene control
 - 8-bit/16-bit value leading edge, Short/Long
 - 16-bit floating point value leading edge, Short/Long
- Or for each pair of inputs:
 - Acting directly on the corresponding outputs as blind button
 - 2-button dimming with stop telegram or with cyclical sending
 - 2-pushbutton sunblind control
- Selectable blocking of each input via a corresponding blocking object
- Sending of input objects after change
- Selectable cyclical input object sending
- Individual or shared configuration of actuator channels
- Communication objects for each blind channel for driving the sun protection into the end positions or for stopping the procedure and adjusting the blind slats in steps
- Communication objects for setting position of slats and blinds in percentage information
- Automatic opening of the blind slats to a preconfigured nominal setting after uninterrupted driving down of the blind from the top to the bottom end position, with integrated 1-bit scene control for storing and calling up (reproduction) of 2 interim blind and slat settings
- Integrated 1-bit/8-bit scene control, 8 scenes can be integrated per channel
- Optional "Sun" object for integration in a sunlight tracking control system
- Differentiation between automatic and manual mode and with automatic switchover from automatic to manual mode for the channel in question by pressing a bus button for manual control of the corresponding sun protection
- Manual mode taking precedence over automatic position commands
- Optional central command for each device or each channel for switching the relevant channels to automatic mode and driving the sun protection into the up or down end position
- Alarm: move to safety position, Locking in this position for as long as alarm is active
- Travel lock (e. g. for cleaning the outer shutter/blinds)
- Status objects for each channel for querying or for automatic sending of sun protection and slat settings as a percentage value
- Optional status objects for reporting that the up or down position has been reached
- Integrated bus coupling unit, Bus connection via bus terminal or contact system to data rail
- Modular installation devices for mounting on TH35 EN 60715 mounting rail

Data sheet	A6V10416147
Rated voltage	AC 230 V
Rated current	6 A
Number of channels	4
Number of inputs potentialfree	8
Dimensions (W x H x D)	144 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	8 MW
Warranty	24 Months

Stock no.	Product no.
5WG1501-1AB01	N 501/01

N 502/02



KNX Combi switching actuator 8 x AC 230 V, 16 A, 8 x binary inputs

- 8 inputs AC/DC 12...230 V
- 8 relay contact outputs
- Rated contact voltage AC 230 V
- Rated contact operating current 16 A, p.f. = 1
- Electronics power supply via an integrated power supply unit for AC 230 V
- Device functional even without bus connection or if bus voltage absent or bus communication interrupted or not yet activated
- Push button to switch between bus and direct mode
- Push button for each output to switch the output in direct mode via a toggling function by a short actuation and for changing the output mode between remote control relay and time switch relay by holding down the push button for some seconds
- Device preset at the factory for direct switching of an output through a toggling function via the input of the same name
- Selectable function for each input when using the Engineering Tool Software (ETS):
 - Switching status / binary value transmission
 - Switching, short / long operation
 - Single button dimming, single button sun protection control, 1-button group control (sequence control)
 - 1-bit scene control
 - 8-bit scene control, 8-bit value, edge-triggered, 8-bit value, short / long operation
 - 16-bit floating point value, edge-triggered, 16-bit value, short / long operation, 16-bit value, edge-triggered, 16-bit floating point value, short / long operation
- Selectable function for each pair of inputs:
 - 2-button dimming with stop telegram or with cyclical sending
 - 2-pushbutton shutter/blind control
- Selectable blocking / releasing of each input via a corresponding blocking object
- Sending of the input objects after a change of status
- Selectable logic operation (AND/OR) for one input with a further communication object and with variable start value of the logic operation at bus voltage recovery
- Setting by means of the ETS, whether all outputs are to be configured identically or individually
- Selectable mode for each output (normal mode, time switch mode)
- Optional addition of a night mode object for each output for time-limited switching On of the output (and hence the illumination) at night
- Variable On and Off delay times for each output
- Variable On period in night mode or in time switch mode
- Selectable warning signal prior to imminent switching-off by means of three-times short off and on switching (flashing) in night mode or in time switch mode
- Optional status object per output for status reporting
- Sending of status objects on request and/or automatically after a change
- Integrated 8-bit scene control and linking of each output with up to 8 scenes
- Selectable switching state for each output at mains or bus power failure as well as after bus or mains voltage recovery
- Integrated bus coupling unit with only half a standard bus load
- Bus connection via bus terminal or contact system to data rail
- Modular installation devices for mounting on TH35 EN 60715 mounting rail

Data sheet	A6V10416148
Rated voltage	AC 230 V
Rated current	16 A
Number of channels	8
Number of inputs potentialfree	8
Dimensions (W x H x D)	144 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	8 MW
Warranty	24 Months

Stock no.	Product no.
5WG1502-1AB02	N 502/02

Lighting

Dimmers		40
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Light level controls		43

5WG1554-1DB31



KNX Universal dimmer 4 x 300 VA / 1 x 1000 VA, AC 230 V

- Four outputs for switching and dimming of resistive, inductive and capacitive loads
- Automatic adjustment to leading edge or trailing edge control, depending on the type of load
- Rated operational voltage AC 230 V
- Rated frequency 50 and 60 Hz
- Rated power at +45°C ambient temperature: up to 300 VA per output, up to 1000 VA with bundling of adjacent outputs, without minimum load per output
- Electronic protection per output against overload, short circuit and temperature rise
- Maintenance-free terminals for connection and through-wiring of untreated single-core, stranded or multi-core conductors, 0.5...2.5 mm²
- Manual operation buttons on the device for switching, dimming and activation of direct mode operation
- Bus-powered electronics
- DIN-rail mounted device for mounting on rail TH35 according to DIN EN 60715
- Building site function for bundling the outputs and switching the building site lighting without prior configuration of the device via ETS
- Object for surveillance of device function
- Object for retrieval of status values
- Per output with selectable operation mode (normal mode, one- or two-level timer mode, blinking)
- Adjustable ON-/OFF-delay
- Object Central Switching with separately configurable on/off delay selectable
- Separately adjustable dimming time from 0% to 100% for switching on/off and dimming brighter/darker
- Switch an output on or off by dimming brighter/darker
- Configurable dimming curves for optimization of the dimming operation of lights
- Additional status object switching and/or status object dimming value
- Additional object for dimming with individually adjustable dimming time
- Configurable maximum and minimum dimming value via parameter and object
- Selectable object for limiting the maximum dimming value
- Selectable object for reporting of overload, short circuit and temperature rise
- Adjustable blocking time for sending status objects after restart and bus voltage recovery
- Integrated 8-bit scene control, linking of the output in up to 8 scenes
- Additional night mode object for time-limited switching on the output at night
- Post-triggering of the On period (On period extension) in time switch mode up to a selectable maximum On period extension via repeated (2x, 3x, 4x, 5x) post-triggering
- Selectable warning signal prior to imminent switching-off by brief off and on switching (flashing) or by cutting the current dimming value in half at night or in time switch mode
- Selectable counting with threshold monitoring: operating hours, load cycles

Data sheet	A6V11418996
Rated voltage	AC 230 V
Rated current	1.3 A
Number of channels	4
Dimensions (W x H x D)	144 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	8 MW
Warranty	24 Months

Stock no.	Product no.
5WG1554-1DB31	5WG1554-1DB31

KNX/DALI Gateway plus/Twin plus

N 141/03, N 141/21



- With emergency lighting, with sensors
 - For communication via KNX with electronic ballasts (ECG) with a DALI interface
 - Integrated power supply with input voltage AC 110-240 V, 50-60 Hz or DC 120-240 V for powering the gateway electronics and DALI output
 - Maximum DALI output voltage of 19 V, short circuit resistant
 - Incorrect voltage detection during commissioning if incorrect power line is connected to a DALI output
 - LED display for displaying operation mode and error messages
 - Pushbutton for switching between bus and direct operating mode
 - One pair of pushbuttons for switching On/Off of all connected DALI ECG
 - One LED per DALI output for status signal of all connected luminaries in direct mode
 - Configurable behaviour for bus failure (stand-alone mode)
 - Configurable pre-loaded applications without ETS
 - Scheduler for day, week, date with astro function
 - Control of all connected luminaries together in broadcast mode
 - Status signal and display of lamp and ECG failure per group and per DALI device
 - Transformation of dimming commands into a temporary setpoint adjustment for ECG with integrated constant light level control and directly connected light level sensor
 - One or two level timer
 - Up to 4 integrated one time or cyclical control of repeatable sequences or color effects
 - Starting the self-conducted testing of each individual inverter and reporting the test result via bus or save in a persistent memory with memory space monitoring over object
 - Distinction between function test, short duration test, and long duration test
 - Per channel up to 6 stand-by-area analysis for activation of switch actuators
 - Scene control for up to 16 scenes per channel
 - 16 integrated 2-level-controller for brightness control and 16 constant light level controller for main luminaries group and up to four additional luminaries groups
 - Assignment of a CIN to a DALI ECG
 - Reintegration defective DALI ECG without ETS
 - Assignment of DALI ECG to groups and test option for ECG, groups, scenes and effects via ETS
 - Assignment of DALI sensors and test option of sensors via ETS
 - Integrated bus coupling unit with only half a standard bus load, bus connection via bus terminal
 - Mounting on DIN rail EN 60715-TH35-7.5
-
- Configurable assignment of max. 64 DALI ECG per channel to max. 16 DALI groups per channel, exclusive controlled in groups or single (switching, dimming, set dimming value and color temperature) and feedback for group status and lamp failure
 - Support of DALI DT8 ECG for colour temperature control (Tunable White). Individual, group, scene, effect and schedule control for Human Centric Lighting
 - Configurable function burn-in for all ECG via pushbutton or single via object
 - Distinction between self-contained emergency luminaries with one or two DALI devices
 - Optional configuration of any DALI ECG to dim to a preset dimming value in emergency mode
 - Locking of switching and dimming commands as well as configuration while emergency mode is activated
 - Activation of emergency mode based on a configurable number of failed DALI ECG
 - Lock object to elimination of failure messages interruption of ECG during emergency lighting testing
 - Inhibit mode for disabling battery mode of self-contained emergency luminaries over pushbutton

Data sheet

A6V10466086

Range overview N 141/03, N 141/21

Product Title	Dimensions (WxHxD) [mm]	Dimension width (1 MW = 18 mm)	Stock no.	Product no.
KNX/DALI Gateway plus, 1 channel	72 x 90 x 60	4 MW	5WG1141-1AB03	N 141/03
KNX/DALI Gateway Twin plus, 2 channels	72 x 90 x 60	4 MW	5WG1141-1AB21	N 141/21

Lighting
Switching/dimming actuators
DALI control output

N 141/31



KNX/DALI Gateway Twin

- Communication via KNX EIB with electronic ballasts (ECG) with a DALI interface
- Two DALI outputs with DALI-2 certification acc. to IEC 62386-101 and 103, each for communication with up to 64 DALI ballasts
- Integrated power supply with input voltage AC 110...240 V, 50...60 Hz or DC 120...240 V for powering the gateway electronics and DALI output
- Support of ECGs Type 0, 1, 2, 3, 4, 5, 6, 7 and 8 according to EN 62386 edition 1 as well as edition 2 (DALI-2)
- Maximum DALI output voltage of 19 V, short circuit resistant
- Incorrect voltage detection during commissioning, whether incorrect power line is connected to a DALI output
- LED display for displaying operation mode and error messages
- Pushbutton for switching between bus and direct operating mode
- One pair of pushbuttons for switching On/Off of all connected DALI ballasts
- One LED per DALI output for status signal of all connected luminaries in direct mode
- Configurable behaviour for bus failure (stand-alone mode)
- Control (switching, dimming, set dimming value) of all connected luminaries together in broad-cast mode
- Status signal and display of lamp and ECG failure per group and per DALI device
- One or two level timer
- Integrated scene control for up to 32 scenes
- Assignment of DALI ECG to groups and test option for ECG, groups and scenes via ETS during commissioning
- Possibility to reintegrate defective DALI ECG without software
- Integrated bus coupling unit with only half a standard bus load
- Bus connection via bus terminal
- Mounting on DIN rail EN 60715-TH35-7.5

The following options are selectable, depending on the application program:

- Configurable assignment of max. 128 DALI ECG to max. 32 DALI groups, exclusive controlled in groups or single (switching, dimming, set dimming value and color temperature) and feedback for group status and lamp failure
- Support of DALI DT8 ECGs for colour temperature control Tc, Tunable White according to EN 62386 part 209. individual, group, scene, effect and schedule control for Human Centric Lighting (HCL)
- Configurable function burn-in for all ECG via pushbutton or single via object
- Up to twelve stand-by-area analysis for activation of switch actuators
- Distinction between self-contained emergency luminaries with one or two DALI devices
- Optional configuration of any DALI ECG to dim to a preset dimming value in case of emergency mode
- Locking of switching and dimming commands as well as configuration while emergency mode is activated
- Activation of emergency mode based on a configurable number of failed DALI ECG
- Lock object to elimination of failure messages interruption of ECG during emergency lighting testing
- Inhibit mode for disabling battery mode of self-contained emergency luminaries over pushbutton

Data sheet	A6V10466084
Dimensions (W x H x D)	72 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	4 MW
Warranty	24 Months

Stock no.	Product no.
5WG1141-1AB31	N 141/31



Presence detector

- Passive infrared detector for ceiling installation
 - Horizontal 360° motion detection area
 - Presence/motion detection up to 64 m² / 400 m² (depending on mounting or room height)
 - A 7-level setting to adjust the presence detection range
 - Brightness and temperature measurement
 - Integrated IR receiver and IR decoder for IR remote control with six pairs of buttons
 - LED for display of detected motions in the delivery state for easy commissioning
 - Programming button operable from the front
 - Integrated bus coupler, bus connection via bus terminal, operation of electronics with bus voltage
 - Mounting on the ceiling on a flush-mounting box with diameter of 60 mm, in a separately ordered housing for surface mounting or mounting plate for 4 x 4 boxes
- Lighting control configurable as fully automatic or semi-automatic
 - Cyclical sending or sending on change of value of the measured brightness value (Lux)
 - Presence detection for three function blocks (presence detector, motion detector, and HVAC detector)
 - Two per function block selectable functions (A, B) on start of the presence detection and two per function block selectable functions (C, D) on expiration of the presence detection
 - Configurable delay of 0...255 seconds between sending of function A and B respectively C and D
 - Selection per function (A, B, C, D) switching On/Off, 8-bit value, 16-bit value, temperature value, brightness value, 8-bit scene control
 - Per function block configurable overshoot time, in each case configurable as a fixed time, as switchable between two times via the bus, or settable to a value via the bus
 - Parallel operation of several presence detectors (master-slave, master-master) without additional logic module
 - Functions of the IR remote control selectable per pair of pushbuttons or per each single pushbutton of a button pair
 - Per pushbutton selectable function toggle, switching on, switching off, 8-bit scene recall, 8-bit value, 16-bit value, temperature value, brightness value
 - For each pair of pushbuttons selectable function switching On/Off, 2-button dimming with stop telegram, 2-button solar protection control, variable 8-bit value, 8-bit scene control
 - Blocking object for IR decoder
 - Test mode for easy start-up
 - LED for display of detected movements in test mode
 - To be configured using ETS

Range overview UP 258.B..1

Product Title	Color	Stock no.	Product no.
KNX Presence Detector WIDE black with temperature measurement	Black	5WG1258-2DB33	UP 258D33
KNX Presence Detector WIDE with temperature measurement	White	5WG1258-2DB31	UP 258D31
KNX Presence Detector WIDE pro with temperature and relative humidity measurement		5WG1258-2DB41	UP 258D41
KNX Presence Detector WIDE multi with temperature, humidity and CO2 measurement		5WG1258-2DB51	UP 258D51

AP 254/02



KNX Dual sensor for brightness measurement, temperature measurement, sun protection control, lighting control

- Brightness measurement, temperature measurement, sun protection control, lighting control
- For the detection and transmission of brightness and temperature
 - Temperature measuring range -25 °C...+55 °C
 - Brightness measuring range 1 Lux...100 kLux
 - Horizontal sensing angle -60°...+60°, vertical -35°...+66.5°
- For the control of switch, dimming and shutter/blind actuators, depending on the ambient luminosity and/or ambient temperature
- One sun protection channel for the automatic control of sun protection equipment, with
 - Starting and stopping of automation by means of an object or a dusk threshold
 - Up to three brightness thresholds for determining the height and position of the shutters/blinds or roller shutters
 - Optional teach-in of dusk thresholds and brightness thresholds by means of a teach-in facility
 - Blocking object for the temporary deactivation of the sun protection channel function
- Up to four universal channels for the control of switch, dimming and shutter/blind actuators, depending on ambient luminosity and/or temperature. Optionally available with:
 - Threshold switches for brightness
 - Threshold switches for temperature
 - Threshold switches with logical combination of brightness and temperature
 - Optional teach-in of brightness threshold for each universal channel by means of an associated teach-in facility
 - Deactivation option for each universal channel by means of an associated blocking object (1 bit)
 - Optional second object for transmission of a second telegram on fulfillment of threshold conditions
- Bus-powered electronics
- Integrated bus coupling units
- Bus connection via bus terminal
- Surface mounting
- Degree of protection: IP54

Data sheet	A6V10416100
Dimensions (W x H x D)	72 x 110 x 54 mm
Warranty	24 Months

Stock no.	Product no.
5WG1254-3EY02	AP 254/02

UP 255D21



KNX Brightness Sensor with constant light level controller

- Mixed light measurement
- Ceiling mounting on a flush-mounting box with 60 mm diameter and min. 40 mm depth or in a housing for surface-mounting (to be ordered separately)
- Programming button reachable from front
- Integrated IR decoder for S 255/11
- Integrated 2-point control (switching)
- Constant light level control for main group of luminaries and up to 4 additional groups of luminaries incl. automatic calibrating

Data sheet	A6V10489482
Dimensions (W x H x D)	88 x 63 x 88 mm
Warranty	24 Months

Stock no.	Product no.
5WG1255-2DB21	UP 255D21

KNX Presence Detector with brightness sensor

- Passive infrared detector for ceiling mounting indoors
- Adjustable sensitivity of detection
- Mixed light measurement
- Ceiling mounting on a flush-mounting box with 60 mm diameter and min. 40 mm depth or in a housing for surface-mounting AP 258E01 (to be ordered separately)
- Integrated IR decoder for S 255/11
- Programming button reachable from front
- Monitoring range horizontal 360°, vertical approx. 105°
- Monitoring motion of an area of diameter 8 m (depending on mounting/room height)
- Optional blinding of parts of the detection area
- Power supply via KNX bus
- Integrated bus coupling unit, bus connection via bus terminal

Data sheet A6V10489482
Warranty 24 Months

UP 258D12



Stock no. 5WG1258-2DB12
Product no. UP 258D12

KNX Presence Detector WIDE DualTech with temperature measurement

- Ultrasound for reliable detection for ceiling installation indoors even behind objects
 - Additional detection options through PIR technology
 - Horizontal 360° motion detection area
 - Presence/motion detection up to 28 m² / 79 m² (depending on mounting or room height)
 - Brightness and temperature measurement
 - Integrated IR receiver and IR decoder for IR remote control with six pairs of buttons
 - LED for display of detected motions in the delivery state for easy commissioning
 - Programming button operable from the front
 - Integrated bus coupler, bus connection via bus terminal, operation of electronics with bus voltage
 - Mounting on the ceiling on a flush-mounting box with diameter of 60 mm, in a separately ordered housing for surface mounting or mounting plate for 4 x 4 boxes
 - Color white (similar to RAL 9016)
-
- Presence detection for three function blocks (presence, HVAC, slave)
 - Two selectable functions per function block at the start and two further functions at expiration of presence detection
 - Parallel operation of more presence detectors (master-slave, master-master) possible
 - Locking and output object for each function block
 - Extension inputs for semi-automatic mode
 - Adjustable sensitivity of detection
 - Calibration of brightness measurement with correction factor/offset, via object mixed light-artificial light and two objects artificial light-daylight
 - Constant light control for one main row of lamps and up to four additional rows of lamps
 - 2-point light control
 - Adjustable temperature control as 2-point and/or steady control, heating/cooling operation
 - Sequence control for PI temperature control
 - Adjustable ventilator speed level
 - Object for dew point alarm
 - Comparator for analog values
 - Min., max. and composite calculator for brightness, temperature, humidity and CO₂
 - Threshold monitoring for brightness, temperature, humidity and CO₂

Data sheet A6V11895378
Color White
Warranty 24 Months

UP 258D61



Stock no. 5WG1258-2DB61
Product no. UP 258D61

UP 258E22



KNX Presence Detector / Motion detector with constant light level control

- Passive infrared detector for ceiling mounting indoors
- Optional blinding of parts of the detection area
- Adjustable sensitivity of detection
- Mixed light measurement
- Cyclical sending or sending on change of value of the measured brightness value (Lux)
- Integrated two-position controller
- Constant light level control for a main group of luminaries and up to four additional groups of luminaries
- Lighting control configurable as fully automatic or semi-automatic
- Motion detection for three function blocks (presence detector, motion detector, and HVAC detector)
- 2 per function block selectable functions (A, B) on start of the presence detection and two per function block selectable functions (C, D) on expiration of the presence detection
- Configurable delay of 0...255 seconds between sending of function A and B respectively C and D
- Selection per function (A, B, C, D) switching On/Off, 8-bit value, selectable 8-bit value, 16-bit value, temperature value, brightness value, 8-bit scene control
- Blocking object per function block
- Per function block configurable overshoot time, in each case configurable as a fixed time, as switchable between two times via the bus, or settable to a value via the bus
- Parallel operation of several presence detectors without additional logic module
- Integrated IR receiver and IR decoder for IR remote controls with six pairs of pushbuttons
- Functions of the IR remote control selectable per pair of pushbuttons or per each single pushbutton of a button pair
- Per pushbutton selectable function toggle, switching on, switching off, 8-bit scene recall, 8-bit value, 16-bit value, temperature value, brightness value
- For each pair of pushbuttons selectable function switching On/Off, 2-button dimming with stop telegram, 2-button solar protection control, variable 8-bit value, 8-bit scene control
- Blocking object for IR decoder
- Test mode for easy start-up
- LED for display of detected movements in test mode, to be configured using ETS
- Integrated bus coupling unit, bus connection via bus terminal, Power supply over the bus line
- Ceiling mounting on a flush-mounting box with 60 mm diameter and min. 40 mm depth or in a housing for surface-mounting AP 258E01 (to be ordered separately)
- Monitoring motion range horizontal 360°, vertical approx. 105°
- Monitoring motion of an area of diameter 8 m (depending on mounting/room height)
- Programming button reachable from front

Data sheet
Warranty

A6V10489482
24 Months

Stock no.	Product no.
5WG1258-2EB22	UP 258E22

Solar protection, anti-glare protection, utilization of daylight

N 501/01



KNX Combination blind actuator, 4 x AC 230 V, 6 A, 8 x binary inputs

- 8 inputs for DC or AC in the range from 12 to 230 V
- 8 relay contact outputs locked in pairs against each other for controlling 4 x AC 230 V sunblind drives
- Contact rated voltage AC 230 V
- Contact rated current 6 A, p.f. = 1
- Electronics powered by a AC 230 V integrated power supply
- Device functional even without bus connection or if the bus communication fails
- Preset on delivery for direct output control for each blind button function via momentary contact switches connected to the inputs
- Key for switching between bus and direct mode
- Button for each relay contact output, for switching the output in direct mode
- Selectable function for each input when using the ETS:
 - Switching status, send binary value
 - Switching on leading edge, switching Short/Long
 - 1-pushbutton dimming, sunblind control, group control
 - 1-bit/8-bit scene control
 - 8-bit/16-bit value leading edge, Short/Long
 - 16-bit floating point value leading edge, Short/Long
- Or for each pair of inputs:
 - Acting directly on the corresponding outputs as blind button
 - 2-button dimming with stop telegram or with cyclical sending
 - 2-pushbutton sunblind control
- Selectable blocking of each input via a corresponding blocking object
- Sending of input objects after change
- Selectable cyclical input object sending
- Individual or shared configuration of actuator channels
- Communication objects for each blind channel for driving the sun protection into the end positions or for stopping the procedure and adjusting the blind slats in steps
- Communication objects for setting position of slats and blinds in percentage information
- Automatic opening of the blind slats to a preconfigured nominal setting after uninterrupted driving down of the blind from the top to the bottom end position, with integrated 1-bit scene control for storing and calling up (reproduction) of 2 interim blind and slat settings
- Integrated 1-bit/8-bit scene control, 8 scenes can be integrated per channel
- Optional "Sun" object for integration in a sunlight tracking control system
- Differentiation between automatic and manual mode and with automatic switchover from automatic to manual mode for the channel in question by pressing a bus button for manual control of the corresponding sun protection
- Manual mode taking precedence over automatic position commands
- Optional central command for each device or each channel for switching the relevant channels to automatic mode and driving the sun protection into the up or down end position
- Alarm: move to safety position, Locking in this position for as long as alarm is active
- Travel lock (e. g. for cleaning the outer shutter/blinds)
- Status objects for each channel for querying or for automatic sending of sun protection and slat settings as a percentage value
- Optional status objects for reporting that the up or down position has been reached
- Integrated bus coupling unit, Bus connection via bus terminal or contact system to data rail
- Modular installation devices for mounting on TH35 EN 60715 mounting rail

Data sheet	A6V10416147
Rated voltage	AC 230 V
Rated current	6 A
Number of channels	4
Number of inputs potentialfree	8
Dimensions (W x H x D)	144 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	8 MW
Warranty	24 Months

Stock no.	Product no.
5WG1501-1AB01	N 501/01

KNX Roller shutter actuator, 4 x AC 230 V, 6 A

N 523/03

- Rated contact current 6 A
- LED for status indication per output
- Direct operation (local operation)
- Electrically interlocked relays (for reversing direction of rotation)
- Transmitting status per channel
- Status Position Sonnenschutz 8 Bit
- Travel lock (e. g. for cleaning the outer shutter/blinds)
- Alarm: Move to safety position, locking in this position for as long as alarm is active
- Individual or shared configuration of actuator channels
- Adaptation of objects and functions to drive type
- Sun protection control (up/down): travel to end position, stopping, stepwise adjustment
- Integrated bus coupling units
- Bus connection via bus terminal or contact system to data rail
- Modular installation devices for mounting on TH35 EN 60715 mounting rail
- 4 channels (one up and one down each)
- Rated contact voltage AC 230 V, 50 Hz
- Integrated 1-bit scene control, 2 Scenes to be integrated per channel
- Integrated power supply unit for the electronics, connected to AC 230 V
- Separate raising/lowering protection



Data sheet	A6V10416172
Rated voltage	AC 230 V
Rated current	6 A
Number of channels	4
Dimensions (W x H x D)	72 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	4 MW
Warranty	24 Months

Stock no.	Product no.
5WG1523-1AB03	N 523/03

Heating, ventilation and air conditioning - room temperature control

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Room thermostats

Flush-mounted

RDF6..KNX Flush Mount

Flush mount KNX room thermostat for 2-/4-pipe FCU with on/off outputs, 2x universal input and electrical heater application, fit for both round and square conduit boxes



Flush-mount room thermostat with LCD for fan coil units and compressors in DX-type equipment

- KNX communications
- For heating and/or cooling applications
- 2 or 3-position control outputs
- Output for 1-speed or 3-speed fan
- 2 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact, presence detector
- Operating modes: Comfort, Economy and Protection
- Automatic or manual heating/cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Backlit display
- Color of housing: signal white (RAL 9003) or black
- Independent function for window contact, presence detector (standard presence and hotel presence)

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 4-pipe system

Data sheet	N3076
Power consumption	2 VA
Switching differential	0.5...6 K
Communication	KNX
Analog inputs, number	2
Relay outputs	Fan: N.O. contacts, non-floating Valve: N.O. contacts, non-floating
Relay outputs, number	5
Relay output, switching voltage	AC 230 V
Relay output, switching current	5 (2) A
Type of fixing	With screws on recessed round conduit box diameter min. 60 mm
Dimensions (W x H x D)	86 x 86 x 46 mm

Range overview RDF6..KNX Flush Mount

Product Title	Operating voltage [V]	Stock no.	Product no.
Flush mount KNX room thermostat for 2-/4-pipe FCU with on/off output and 2x universal input, fit for both round and square conduit boxes	AC 230	S55770-T293	##NA AU Products

6

Flush mount touch screen KNX room thermostat for 2-/4-pipe FCU with on/off outputs, 2x universal input and electrical heater application, fit for both round and square conduit boxes

RDF8..KNX Flush Mount



- Operating modes: Comfort, Economy and Protection
- For heating and/or cooling applications
- 2 or 3-position control outputs
- Output for 1-speed or 3-speed fan
- 2 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact, presence detector
- Automatic or manual heating/cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Color of housing: Ivory white or black
- Backlit display

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 4-pipe system

Data sheet	N3174
Power consumption	6 VA
Setpoint setting range	5..40 °C
Switching differential	0.5...6 K
Communication	Bus: KNX (S-mode and LTE mode with Synco 700)
Analog inputs, number	2
Relay outputs	Fan: N.O. contacts, non-floating Valve: N.O. contacts, non-floating
Relay outputs, number	5
Relay output, switching voltage	AC 230 V
Relay output, switching current	5 (2) A
Degree of protection	IP30
Dimensions (W x H x D)	86 x 86 x 47 mm

Range overview RDF8..KNX Flush Mount

Product Title	Operating voltage [V]	Stock no.	Product no.
Flush mount touch KNX room thermostat for 2-/4-pipe FCU with on/off output and 2x universal input, fit for both round and square conduit boxes	AC 230	S55770-T350	RDF800KN



Room thermostats

Wall-mounted

RDG165KN



Room thermostat with KNX communications and built-in humidity sensor and humidity control, AC 24 V, for fan coil units and universal applications, heat pump, fan (1-/ 3-speed, DC), valves (2-point, DC)

- KNX communications
- For applications with DC control outputs and DC or 3-speed fan output
- For applications with 2-position control output with DC fan output
- 3 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, Presence detector, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact
- Operating modes: Comfort, Economy and Protection
- Automatic or manual EC fan or 1-/3-speed
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Backlit display
- Built-in humidity sensor and humidity control

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 4-pipe system
- 2-stage heating or cooling system

Data sheet	N3191
Operating voltage	AC 24 V
Power consumption	2 VA 2 W
Setpoint setting range	5...40 °C
Switching differential	Heating: 0.5...6 K; Cooling: 0.5...6 K
Communication	Bus: KNX (S-Mode und LTE-Mode mit Synco 700)
Analog inputs, number	2
Analog outputs	Valve, el. heater: 2 Fan: 1 (ECM)
Analog outputs, number	3
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Digital inputs, number	1
Relay outputs	Valve, compressor or el. heater: 2 outputs, 2-position Fan: 1- or 3-speed
Relay outputs, number	3
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	5 (4)A
Type of fixing	Wall mounting with screws
Degree of protection	IP30
Dimensions (W x H x D)	93 x 128 x 30.8 mm
Warranty	24 Months

Stock no.	Product no.
S55770-T347	RDG165KN

Room thermostats RDG2.. with KNX communications

RDG2..KN

- For fan coil , universal heat/cool and ventilation (VAV fresh air) applications
- KNX communications: S-mode, PL-Link with PXC4/5/7, LTE-mode with Synco
- 3 multifunctional inputs for keycard contact, external room / return air temperature (NTC3K; QAH11.1, QAA32 or LG-Ni1000 sensors), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact, presence detector
- Operating modes: Comfort, Economy and Protection
- Automatic or manual DC fan or 1-/3-speed
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Backlit display
- Green leaf function
- Local weekly time program (with 3 Comfort periods per day)
- Manager /Subordinate (M/S) function
- Delta temperature control for district heating and cooling
- Commissioning via Smartphone APP "PCT Go", local HMI or KNX tools.

Data sheet	A6V11545853
Setpoint setting range	5...40 °C
Switching differential	Heating: 0.5...6 K; Cooling: 0.5...6 K
Communication	Bus: KNX (S-mode and LTE with Synco)
Analog output, signal	DC 0...10 V
Relay output, switching current	5 (4) A
Type of fixing	Wall mounting with screws
Degree of protection	IP30
Dimensions (W x H x D)	92 x 134 x 25 mm

Room thermostats

Wall-mounted

RDG200KN



KNX communicating room thermostat. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air

- Built-in temperature and humidity sensors
- For applications with 2-position (on/off or PWM) or 3-position control outputs
- For applications with 3-speed or DC 0...10 V fan
- AC 230 V or AC 24 V power supply.

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling systems
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)

Data sheet	A6V11545853
Operating voltage	AC 24 V AC 230 V
Analog inputs, number	3
Analog outputs	Fan, fresh air damper (DC 0...10V)
Analog outputs, number	2
Digital inputs, number	3
Relay outputs	Fan: 1- or 3-speed
Relay output, switching voltage	AC 24 V or 230 V
Triac outputs	Valve, el. heater 2-position, PWM, 3-position
Triac outputs, number	4
Triac output, switching voltage	AC 24...230 V
Triac output, switching current	1 A

Stock no.	Product no.
S55770-T409	RDG200KN

KNX communicating room thermostat in black. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air

RDG200KN/BK



- Built-in temperature and humidity sensors
- Black color device RAL9011
- For applications with 2-position (on/off or PWM) or 3-position control outputs
- For applications with 3-speed or DC 0...10 V fan
- AC 230 V or AC 24 V power supply.

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling systems
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)

Data sheet	A6V11545853
Operating voltage	AC 24 V AC 230 V
Analog inputs, number	3
Analog outputs	Fan, fresh air damper (DC 0...10V)
Analog outputs, number	2
Digital inputs, number	3
Relay outputs	Fan: 1- or 3-speed
Relay output, switching voltage	AC 24 V or 230 V
Triac outputs	Valve, el. heater 2-position, PWM, 3-position
Triac outputs, number	4
Triac output, switching voltage	AC 24...230 V
Triac output, switching current	1 A

Stock no.	Product no.
S55770-T452	RDG200KN/BK

Room thermostats

Wall-mounted

RDG204KN



KNX communicating room thermostat with CO2 sensor. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air

- Built-in temperature, humidity and CO2 sensors
- Indoor air quality monitoring and controlling (CO2) via fresh air damper
- Display of CO2 value in ppm (parts per million) or with text
- For applications with 2-position (on/off or PWM) or 3-position control outputs
- For applications with 3-speed or DC 0...10 V fan
- AC 230 V or AC 24 V power supply.

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)

Data sheet	A6V11545853
Operating voltage	AC 24 V AC 230 V
Analog inputs, number	3
Analog outputs	Fan, fresh air damper: (DC 0...10 V)
Analog outputs, number	2
Digital inputs, number	3
Relay outputs	Fan: 1- or 3-speed
Relay output, switching voltage	AC 24 V or 230 V
Triac outputs	Valve, el. heater, fresh air damper 2-position, PWM, 3-position
Triac outputs, number	4
Triac output, switching voltage	AC 24...230 V
Triac output, switching current	1 A

Stock no.	Product no.
S55770-T410	RDG204KN

KNX communicating room thermostat. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air

RDG260KN



- Built-in temperature and humidity sensors
- For applications with DC control outputs and DC or 3-speed fan output
- For applications with 2-position control output with DC fan output
- AC or DC 24 V operating voltage

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling system
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)
- 4-pipe system with 6-port ball valves and PICV
- Heating / cooling with 6-port ball valves

Data sheet	A6V11545853
Operating voltage	AC/DC 24 V
Analog inputs, number	3
Analog outputs	Valve, el. heater: 4 fan: 1 fresh air damper: 1 (DC 0...10V)
Analog outputs, number	5
Digital inputs, number	3
Relay outputs	Valve, compressor or el. heater: 2 outputs, 2-position Fan: 1- or 3-speed
Relay output, switching voltage	AC 24...230 V

Stock no.

Product no.

S55770-T412

RDG260KN

Room thermostats

Wall-mounted

RDG260KN/BK



KNX communicating room thermostat in black. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air

- Built-in temperature and humidity sensors
- Black color device RAL9011
- For applications with DC control outputs and DC or 3-speed fan output
- For applications with 2-position control output with DC fan output
- AC or DC 24 V operating voltage

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling system
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)
- Heating / cooling with 6-port ball valves

Data sheet	A6V11545853
Operating voltage	AC 24 V 24 V DC 24 V
Analog inputs, number	3
Analog outputs	Valve, el. heater: 4 fan: 1 fresh air damper: 1 (DC 0...10V)
Analog outputs, number	5
Digital inputs, number	3
Relay outputs	Valve, compressor or el. heater: 2 outputs, 2-position Fan: 1- or 3-speed
Relay output, switching voltage	AC 24...230 V

Stock no.	Product no.
S55770-T453	RDG260KN/BK

RDG264KN



KNX communicating room thermostat with CO2 sensor. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air

- Built-in temperature, humidity and CO2 sensors
- Indoor air quality monitoring and controlling (CO2) via fresh air damper
- Display of CO2 value in ppm (parts per million) or with text
- For applications with DC control outputs and DC or 3-speed fan output
- For applications with 2-position control output with DC fan output
- AC or DC 24 V operating voltage

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling system
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)
- Heating / cooling with 6-port ball valves

Data sheet	A6V11545853
Operating voltage	AC 24 V 24 V DC 24 V
Analog inputs, number	3
Analog outputs	Valve, el. heater: 4 fan: 1 fresh air damper: 1 (DC 0...10V)
Analog outputs, number	5
Digital inputs, number	3
Relay outputs	Valve, compressor or el. heater: 2 outputs, 2-position Fan: 1- or 3-speed
Relay output, switching voltage	AC 24...230 V

Stock no.	Product no.
S55770-T413	RDG264KN

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing and operation

Flush-mounted

UP 227



KNX Room Control Unit, i-system

- Multifunctional display-/control panel for KNX with Dot-Matrix LCD display 96 x 128 pixels
- 8 capacitive touch buttons for horizontal operation
- For the display and control of at least 10 adjustable room control functions: Switching toggle/On/Off, Dimming, Door bell function On/Off, Solar protection control; send 1 Byte/2 Byte value; display 1 Bit/1 Byte/2 Byte value; Forced control; display text messages; warning and alarm messaging; recall and save scenes; warning and alarm messaging
- Room control functions lockable via KNX-bus
- Green/red LED as orientation light, as status indication, as a response to pressing a button respectively to the signalling of alarm reports
- A signaler for acoustical alarm reports respectively as a status of the touch operation
- Integrated room temperature sensor
- Evaluation and weighting of an external inside temperature sensor
- Room temperature control configurable as two-step control and/or continuous control, for exclusive heating operation, exclusive cooling operation or heating and cooling operation
- Selectable operating modes over the KNX: Comfort, Pre-comfort, Energy-savings and protection
- Local indication
 - Of the active operating modes or automatic- respectively manual mode
 - Inside temperature or outside temperature
 - Heating or cooling mode
 - Dew point alarm
 - Open window
- Local switching between
 - Manual- and automatic mode
 - Comfort, pre-comfort, energy-saving- and protection mode
- Adjustable time-limited extension of the comfort mode
- Adjustable room temperature setpoint shifting for comfort mode
- Via KNX set basic setpoint value of the room temperature for comfort mode
- An outside temperature based temperature setpoint value tracing in the cooling operation
- Adjustable dead zone between the heating setpoint value and the cooling setpoint value for comfort mode
- Transmission of controller output(s) either as On/Off switching commands or as control commands in the range 0...100 %
- Local display of the manually selected fan rotational speed respectively of the automatic adjustment of the fan rotational speed
- Adjustable fan rotational speed respectively automatic adjustment of the fan rotational speed on the controller
- Weekly schedule programme for controller- operating modes, automatic mode and at the least 8 room control functions
- At the least 40 schedule tasks and Display and set of the date and time
- User control of LCD background lighting and Background color
- Display system settings and room temperature controller in the languages: German, English, French, Italian od Spanish
- User setting of at least 3 operating languages also Integrated bus coupling unit, bus connection via bus terminal possible
- Flush mounted device for the mounting in an flush wall box Ø 60 mm, for fixing on the mounting plate AQR2500NF via lateral springs (separately specified)

The matching design frame must be ordered separately. See chapter Display and Operation Units - Pushbuttons bus transceiver module (BTM).

The mounting plate AQR2500.. must be ordered separately.

Data sheet	A6V10416250
Dimensions (W x H x D)	55 x 55 x 37.2 mm
Warranty	24 Months

Stock no.	Product no.
5WG1227-2AB11	UP 227

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing and operation

Flush-mounted

KNX Temperature controller, titanium white

UP 237K11



- Integrated room temperature sensors
- Control can be set as a two-point control and/or continuous-action control (P or PI algorithm), for heating only, for cooling only, or for heating and cooling mode
- Operating modes that can be switched via KNX: comfort mode, pre-comfort mode, energy-saving mode and frost or heat protection mode
- Presence pushbutton to locally switch between comfort and pre-comfort mode or comfort and energy-saving mode and to extend comfort mode after operating energy-saving or protection mode
- Pushbutton for switching over between manual and automatic mode
- The room temperature setpoint value for comfort mode can be set via an interchangeable rotary button (+/-) on the controller and via the KNX
- Basic setpoint of the room temperature for comfort mode which can be set via the KNX
- Setpoint value for comfort mode in °C which can be set via an interchangeable rotary button on the controller
- Adjustable dead zone between the heating setpoint and the cooling setpoint for comfort mode
- Two-level heating or cooling
- Output of the control variable(s) either as an on/off switch command or as a positioning command in the range of 0...100 %
- 5 LEDs to display manual mode and the current operating modes
- 4 LEDs to display heating/cooling valve open, dew point alarm and open window
- For plugging onto a bus transceiver module (BTM) or a flush-mounting actuator with bus transceiver module (BTM)
- Titanium white

The bus coupling module (BTM) (see chapter Systemproducts and Accessories) or flush-mounting actuator with bus coupling (BTM) must be ordered separately. The matching design frame must be ordered separately. See chapter Display and Operation Units - Pushbutton Accessories.

Data sheet	A6V10416253
Dimensions (W x H x D)	55 x 55 x 16 mm
Warranty	24 Months

Stock no.	Product no.
5WG1237-2KB11	UP 237K11

The bus transceiver module (BTM) (see Chapter System Products and Accessories) or flush-mounting actuator with bus transceiver module (BTM) must be ordered separately. The matching design frame must be ordered separately. See Chapter Display and Operation Units - Pushbutton accessories.

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing and operation i-system

UP 227



KNX Room Control Unit, i-system

- Multifunctional display-/control panel for KNX with Dot-Matrix LCD display 96 x 128 pixels
- 8 capacitive touch buttons for horizontal operation
- For the display and control of at least 10 adjustable room control functions: Switching toggle/On/Off, Dimming, Door bell function On/Off, Solar protection control; send 1 Byte/2 Byte value; display 1 Bit/1 Byte/2 Byte value; Forced control; display text messages; warning and alarm messaging; recall and save scenes; warning and alarm messaging
- Room control functions lockable via KNX-bus
- Green/red LED as orientation light, as status indication, as a response to pressing a button respectively to the signalling of alarm reports
- A signaler for acoustical alarm reports respectively as a status of the touch operation
- Integrated room temperature sensor
- Evaluation and weighting of an external inside temperature sensor
- Room temperature control configurable as two-step control and/or continuous control, for exclusive heating operation, exclusive cooling operation or heating and cooling operation
- Selectable operating modes over the KNX: Comfort, Pre-comfort, Energy-savings and protection
- Local indication
 - Of the active operating modes or automatic- respectively manual mode
 - Inside temperature or outside temperature
 - Heating or cooling mode
 - Dew point alarm
 - Open window
- Local switching between
 - Manual- and automatic mode
 - Comfort, pre-comfort, energy-saving- and protection mode
- Adjustable time-limited extension of the comfort mode
- Adjustable room temperature setpoint shifting for comfort mode
- Via KNX set basic setpoint value of the room temperature for comfort mode
- An outside temperature based temperature setpoint value tracing in the cooling operation
- Adjustable dead zone between the heating setpoint value and the cooling setpoint value for comfort mode
- Transmission of controller output(s) either as On/Off switching commands or as control commands in the range 0...100 %
- Local display of the manually selected fan rotational speed respectively of the automatic adjustment of the fan rotational speed
- Adjustable fan rotational speed respectively automatic adjustment of the fan rotational speed on the controller
- Weekly schedule programme for controller- operating modes, automatic mode and at the least 8 room control functions
- At the least 40 schedule tasks and Display and set of the date and time
- User control of LCD background lighting and Background color
- Display system settings and room temperature controller in the languages: German, English, French, Italian od Spanish
- User setting of at least 3 operating languages also Integrated bus coupling unit, bus connection via bus terminal possible
- Flush mounted device for the mounting in an flush wall box Ø 60 mm, for fixing on the mounting plate AQR2500NF via lateral springs (separately specified)

The matching design frame must be ordered separately. See chapter Display and Operation Units - Pushbuttons bus transceiver module (BTM).

The mounting plate AQR2500.. must be ordered separately.

Data sheet	A6V10416250
Dimensions (W x H x D)	55 x 55 x 37.2 mm
Warranty	24 Months

Stock no.	Product no.
5WG1227-2AB11	UP 227

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing and operation i-system

KNX Temperature controller, titanium white

UP 237K11



- Integrated room temperature sensors
- Control can be set as a two-point control and/or continuous-action control (P or PI algorithm), for heating only, for cooling only, or for heating and cooling mode
- Operating modes that can be switched via KNX: comfort mode, pre-comfort mode, energy-saving mode and frost or heat protection mode
- Presence pushbutton to locally switch between comfort and pre-comfort mode or comfort and energy-saving mode and to extend comfort mode after operating energy-saving or protection mode
- Pushbutton for switching over between manual and automatic mode
- The room temperature setpoint value for comfort mode can be set via an interchangeable rotary button (+/-) on the controller and via the KNX
- Basic setpoint of the room temperature for comfort mode which can be set via the KNX
- Setpoint value for comfort mode in °C which can be set via an interchangeable rotary button on the controller
- Adjustable dead zone between the heating setpoint and the cooling setpoint for comfort mode
- Two-level heating or cooling
- Output of the control variable(s) either as an on/off switch command or as a positioning command in the range of 0...100 %
- 5 LEDs to display manual mode and the current operating modes
- 4 LEDs to display heating/cooling valve open, dew point alarm and open window
- For plugging onto a bus transceiver module (BTM) or a flush-mounting actuator with bus transceiver module (BTM)
- Titanium white

The bus coupling module (BTM) (see chapter Systemproducts and Accessories) or flush-mounting actuator with bus coupling (BTM) must be ordered separately. The matching design frame must be ordered separately. See chapter Display and Operation Units - Pushbutton Accessories.

Data sheet	A6V10416253
Dimensions (W x H x D)	55 x 55 x 16 mm
Warranty	24 Months

Stock no.	Product no.
5WG1237-2KB11	UP 237K11

The bus transceiver module (BTM) (see Chapter System Products and Accessories) or flush-mounting actuator with bus transceiver module (BTM) must be ordered separately. The matching design frame must be ordered separately. See Chapter Display and Operation Units - Pushbutton accessories.

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing and operation

Wall-mounted

QMX3.P02



Room operator unit KNX with temperature sensor, configurable touchkeys, LED display, white

Functions:

- Temperature sensor
- Configurable touchkeys with LED display
- Switching and control of lighting, blinds, scenes
- Window for labels
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Power consumption	Quiet power: 0.18 W
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Display	LED
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.19 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H107	QMX3.P02

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing and operation

Wall-mounted

Room operator unit KNX with temperature sensor, segmented backlit display, touchkeys, white ** In phase-out **

QMX3.P34



Functions:

- Temperature sensor
- Segmented backlit display and touchkeys

- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Power consumption	Quiet power: 0.18 W
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.21 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H105	QMX3.P34

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing and operation

Wall-mounted

QMX3.P34-1BSC



Room operator unit KNX with temperature sensor, segmented backlit display, touchkeys, black ** In phase-out **

Functions:

- Temperature sensor
- Segmented backlit display and touchkeys
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Warranty	24 Months

Stock no.

Product no.

S55624-H126

QMX3.P34-1BSC

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing and operation

Wall-mounted

Room operator unit KNX with temperature sensor, segmented backlit display, configurable touchkeys, LED display, white

QMX3.P37



Functions:

- Temperature sensor
- Segmented backlit display and touchkeys
- Configurable touchkeys with LED display
- Switching and control of lighting, blinds, scenes
- Window for labels
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Operating voltage	DC 21 V
Voltage supply	KNX bus
Power consumption	Quiet power: 0.24 W
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Display	LED
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.216 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H108	QMX3.P37

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing and operation

Wall-mounted

QMX3.P37-1BSC



Room operator unit KNX with temperature sensor, segmented backlit display, configurable touchkeys, LED display, black

Functions:

- Temperature sensor
- Segmented backlit display and touchkeys
- Configurable touchkeys with LED display
- Switching and control of lighting, blinds, scenes
- Window for labels
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link
	KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Warranty	24 Months

Stock no.	Product no.
S55624-H129	QMX3.P37-1BSC

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing and operation

Wall-mounted

Room operator unit KNX with sensors for temperature, humidity, segmented backlit display, touchkeys, white **** In phase-out ****

QMX3.P44



Functions:

- multisensor for temperature and humidity
- Segmented backlit display and touchkeys

- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Measuring range	NTC: 0...50 °C Humidity: 10%...95 % r.F.
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.21 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H143	QMX3.P44

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing and operation

Wall-mounted

QMX3.P44-1BSC



Room operator unit KNX with sensors for temperature, humidity, segmented backlit display, touchkeys, black ** In phase-out **

Functions:

- Multisensor for temperature and humidity
- Segmented backlit display and touchkeys
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Operating voltage	DC 24 V
Voltage supply	KNX bus
Power consumption	0.24 VA
Measuring range	NTC: 0...50 °C Humidity: 10%...95 % r.F.
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Display	Segment LCD
Communication	KNX PL-Link KNX S-Mode
Connection cable	1.0 mm ² ; 0 m
Ambient temperature, operation	0...50 °C
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.21 kg
Warranty	24 Months

Stock no.

Product no.

S55624-H144

QMX3.P44-1BSC

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing and operation

Wall-mounted

Room operator unit KNX with sensors for temperature, humidity, CO2, segmented backlit display, touchkeys, white ** In phase-out **

QMX3.P74



Functions:

- multisensor for temperature, humidity and CO2
- Segmented backlit display and touchkeys

- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Power consumption	Quiet power: 0.36 W
Measuring range	400...10000 ppm CO ₂
Sensing element	Temperature sensor, CO2 sensor, relative humidity sensor
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.22 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H106	QMX3.P74

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing i-system

AQR2570..



Base module with KNX for temperature and humidity measurement

- Base module without sensor for plugging onto a front module
- 1 analog input to connect temperature sensors with NTC 10k sensing element to measure room, floor, or ceiling temperature
- 2 multifunctional binary inputs to connect window contacts or buttons
- Power supply via KNX bus, bus load < 5 mA
- Communication: KNX S-Mode, KNX PL-Link
- Temperature control as continuous control (PID algorithm) for pure heating operation, heating and cooling operation, and adjustable positioning variable as continuous positioning signal 0...100%, or as pulse-width modulated (PWM) switching signal On/Off,
- Ventilation control across 3 settable switching steps for relative humidity, and 3 switching signal objects On/Off, or one positioning signal object 0...100% to control a ventilation actor
- Via setpoints for room temperature and relative humidity adjustable via KNX bus
- Adjustable commissioning and control parameters
- Integrated bus coupler with programming button and LED

Data sheet	N1411
Voltage supply	KNX bus
Analog inputs, number	1
Analog inputs	Passive temperature sensor NTC 10k
Digital inputs, number	2
Digital inputs	Potential-free contacts
Warranty	60 Months

Range overview AQR2570..

Mechanical design	Stock no.	Product no.
UK (British Standard)	S55720-S204	AQR2570NH

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing i-system

Base modules with KNX for CO₂ measurement

AQR2576..

- Base module with maintenance and recalibration-free CO₂ sensor to plug onto a front module
- 1 analog input to connect temperature sensors with NTC 10k sensing element to measure room, floor, or ceiling temperature
- 2 multifunctional binary inputs to connect window contacts or buttons
- Power supply via KNX bus, bus load < 5 mA

- Communication: KNX S-Mode, KNX PL-Link

- Ventilation control across 3 settable switching steps for relative humidity & CO₂ concentration, and 3 switching signal objects On/Off, or one positioning signal object 0...100% to control a ventilation actor
- Temperature control as continuous control (PID algorithm) for pure heating operation, heating and cooling operation, and adjustable positioning variable as continuous positioning signal 0...100%, or as pulse-width modulated (PWM) switching signal On/Off
- Via setpoints for room temperature and relative humidity, and CO₂ concentration, adjustable via KNX bus
- Adjustable commissioning and control parameters
- Integrated bus coupler with programming button and LED



Data sheet	N1411
Voltage supply	KNX bus
Measuring range	CO ₂ : 0...5000 ppm
Analog inputs, number	1
Analog inputs	Passive temperature sensor NTC 10k
Digital inputs, number	2
Digital inputs	Potential-free contacts
Warranty	60 Months

Range overview AQR2576..

Mechanical design	Dimensions (WxHxD) [mm]	Stock no.	Product no.
UK (British Standard)	71 x 71 x 45	S55720-S208	AQR2576NH

Front module for base module, without sensor

AQR2530NNW

- Front module without sensor for plugging onto the Base module
- Matching the DELTA line and DELTA miro frame program

Data sheet	N1411
Color	Titanium white
Degree of protection	IP30
Dimensions (W x H x D)	55 x 55 x 12 mm
Warranty	60 Months



Stock no.	Product no.
S55720-S137	AQR2530NNW

Matching the DELTA line and DELTA miro frame program. See chapter Display and Operation Units.
The relevant base modules must be ordered separately. See chapter Physical sensors.



Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing i-system

AQR2532NNW



Front module for base modules, temperature (active)

- Front module with sensor for plugging onto the Base module
- Matching the DELTA line and DELTA miro frame program

Data sheet	N1411
Signal output temperature	Active
Measuring range, temperature	0...50 °C
Color	Titanium white
Degree of protection	IP30
Dimensions (W x H x D)	55 x 55 x 12 mm
Warranty	60 Months

Stock no.	Product no.
S55720-S136	AQR2532NNW

Matching the DELTA line and DELTA miro frame program. See chapter Display and Operation Units.
The relevant base modules must be ordered separately. See chapter Physical sensors.

AQR2535NNW



Front module for base modules, humidity and temperature (active)

- Front module with humidity and temperature sensor for plugging onto the Base module
- Matching the DELTA line and DELTA miro frame program

Data sheet	N1411
Signal output temperature	Active
Measurement range humidity	0...100 % r.h.
Sensing element, temperature	Active
Measuring range, temperature	0...50 °C
Color	Titanium white
Degree of protection	IP30
Dimensions (W x H x D)	55 x 55 x 12 mm
Warranty	60 Months

Stock no.	Product no.
S55720-S141	AQR2535NNW

Matching the DELTA line and DELTA miro frame program. See chapter Display and Operation Units.
The relevant base modules must be ordered separately. See chapter Physical sensors.

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing i-system

Front module for base module, humidity and temperature, with LED

AQR2535NNWQ

- Front module with humidity and temperature sensor and CO₂ indicator for plugging onto the Base module
- Matching the DELTA line and DELTA miro frame program



Data sheet	N1411
Signal output temperature	Active
Measurement range humidity	0...100 % r.h.
Sensing element, temperature	Active
Measuring range, temperature	0...50 °C
Display	CO ₂ indicator by LED
Color	Titanium white
Degree of protection	IP30
Dimensions (W x H x D)	55 x 55 x 38 mm
Warranty	60 Months



Stock no.

Product no.

S55720-S219

AQR2535NNWQ

Matching the DELTA line and DELTA miro frame program. See chapter Display and Operation Units.

The relevant base modules must be ordered separately. See chapter Physical sensors - Without KNX connection.

Room temperature controllers with integrated sensing

Wall-mounted

QMX3.P30

Room sensor KNX for temperature, white ** In phase-out **



Functions:

- Temperature sensor
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Power consumption	Quiet power: 0.18 W
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode KNX LTE-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.19 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H103	QMX3.P30

Heating, ventilation and air conditioning - room temperature control

Room temperature controllers with integrated sensing

Wall-mounted

Room sensor KNX for temperature and humidity, white ** In phase-out **

QMX3.P40

Functions:

- Multisensor for temperature and humidity
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX



Data sheet	N1602
Voltage supply	KNX bus
Measuring range	NTC: 0...50 °C Humidity: 10%...95 % r.F.
Sensing element	Temperature sensor, relative humidity sensor
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.71 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H116	QMX3.P40

Room temperature controllers with integrated sensing

Wall-mounted

QMX3.P40-1BSC

Room sensor KNX for temperature and humidity, black ** In phase-out **



Functions:

- Multisensor for temperature and humidity
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Measuring range	NTC: 0...50 °C Humidity: 10%...95 % r.F.
Sensing element	Temperature sensor, relative humidity sensor
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Warranty	24 Months

Stock no.	Product no.
S55624-H124	QMX3.P40-1BSC

Heating, ventilation and air conditioning - room temperature control
Room temperature controllers with integrated sensing
Wall-mounted

Room sensor KNX for temperature, humidity, CO2, white ** In phase-out **

QMX3.P70

Functions:

- Multisensor for temperature, humidity and CO2
- Air quality indicator with LED
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX



Data sheet	N1602
Voltage supply	KNX bus
Power consumption	Quiet power: 0.36 W
Measuring range	400...10000 ppm CO ₂
Sensing element	Temperature sensor, CO2 sensor, relative humidity sensor
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode KNX LTE-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.19 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H104	QMX3.P70

Room sensors with KNX

i-system

UP 223/14



KNX Pushbutton, triple, with status LED, with scene controller, with room temperature sensor, titanium white, i-system

- Pushbutton in 3 pairs
- Horizontal operation
- Per pushbutton selectable function, scene controller
- LED for orientation light
- Labeling field
- Temperature sensor
- Connectable bus coupling unit (BTM) or flush-mounted actuators via BTI

Data sheet

A6V10416093

Dimensions (W x H x D)

55 x 55 x 11 mm

Warranty

24 Months

Stock no.

Product no.

5WG1223-2AB14

UP 223/14

The bus transceiver module (BTM) (see Chapter System Products and Accessories) or flush-mounting actuator with bus transceiver module (BTM) must be ordered separately. The matching design frame must be ordered separately. See Chapter Display and Operation Units - Pushbutton accessories.

Heating, ventilation and air conditioning - room temperature control

Room sensors with KNX Wall-mounted

Room sensor KNX for temperature, white ** In phase-out **

QMX3.P30

Functions:

- Temperature sensor
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX



Data sheet	N1602
Voltage supply	KNX bus
Power consumption	Quiet power: 0.18 W
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode KNX LTE-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.19 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H103	QMX3.P30

Room sensors with KNX

Wall-mounted

QMX3.P40



Room sensor KNX for temperature and humidity, white ** In phase-out **

Functions:

- Multisensor for temperature and humidity
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Measuring range	NTC: 0...50 °C Humidity: 10%...95 % r.F.
Sensing element	Temperature sensor, relative humidity sensor
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.71 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H116	QMX3.P40

Heating, ventilation and air conditioning - room temperature control

Room sensors with KNX Wall-mounted

Room sensor KNX for temperature and humidity, black ** In phase-out **

QMX3.P40-1BSC

Functions:

- Multisensor for temperature and humidity
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX



Data sheet	N1602
Voltage supply	KNX bus
Measuring range	NTC: 0...50 °C Humidity: 10%...95 % r.F.
Sensing element	Temperature sensor, relative humidity sensor
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Warranty	24 Months

Stock no.	Product no.
S55624-H124	QMX3.P40-1BSC

Room sensors with KNX

Wall-mounted

QMX3.P70



Room sensor KNX for temperature, humidity, CO2, white ** In phase-out **

Functions:

- Multisensor for temperature, humidity and CO2
- Air quality indicator with LED
- Temperature control, adjustable as PWM control and/or modulating control (PID algorithm), for pure heating mode, pure cooling mode, heating and cooling mode
- Operating modes switchable via KNX and/or display: Comfort mode, Pre-Comfort, energy savings and protection mode
- Adjustable commissioning and control parameters for radiated heating, slow and fast, floor heating slow and fast
- Integrated bus coupling unit
- 3 independently adjustable switching values for CO2 concentration and relative air humidity for air quality control
- Actuating variable for 1, 2, or 3-stage fans (humidity and CO2)
- Actuating variable for 1, 2, or 3-point positioning signal (humidity and CO2)
- Setpoint for room temperature and relative humidity and CO2 concentration adjustable via KNX

Data sheet	N1602
Voltage supply	KNX bus
Power consumption	Quiet power: 0.36 W
Measuring range	400...10000 ppm CO ₂
Sensing element	Temperature sensor, CO2 sensor, relative humidity sensor
Measuring range, temperature	0...50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link KNX S-Mode KNX LTE-Mode
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.19 kg
Warranty	24 Months

Stock no.	Product no.
S55624-H104	QMX3.P70

Front modules for base module

AQR253..



- Front module with sensors
- Matching the DELTA line and DELTA miro frame program

Data sheet N1411
Color Titanium white
Degree of protection IP30
Warranty 60 Months

Range overview AQR253..

Measuring range, temperature [°C]	Signal output temperature	Measurement range humidity [% r.h.]	Display	Dimensions (WxHxD) [mm]	Stock no.	Product no.
				55 x 55 x 12	S55720-S137	AQR2530NNW
0...50	Active			55 x 55 x 12	S55720-S136	AQR2532NNW
0...50	Active	0...100		55 x 55 x 12	S55720-S141	AQR2535NNW
0...50	Active	0...100	CO ₂ indicator by LED	55 x 55 x 38	S55720-S219	AQR2535NNWQ

Matching the DELTA line and DELTA miro frame program. See chapter Display and Operation Units.
The relevant base modules must be ordered separately. See chapter Physical sensors.

Actuators with KNX

Damper and rotary actuators

G..B181.1E/KN

VAV compact controller KNX



- Compact controller with KNX communication for plants with variable or constant air volume flow
- Integrated, highly precise differential pressure sensor, damper actuator and digitally configurable air volume controller
- Nominal torque 5 or 10 Nm
- Air damper rotation angle mechanically adjustable between 0 and 90°
- Configurable as single device per room or for cascade control with pressure ratio 1:1, positive pressure, or negative pressure
- Prewired with a 0.9 m cable and a 0.9 m cable

Can be configured as damper actuator (without air volume control) with ETS.



Data sheet	N3547
Positioning time	150 s
Communication	KNX S-Mode KNX LTE-Mode KNX PL-Link
Cable length	0.9 m
Degree of protection	IP54
Dimensions (W x H x D)	71 x 158 x 61 mm
Warranty	60 Months

Range overview G..B181.1E/KN

Torque [Nm]	Operating voltage [V]	Power consumption	Air damper area [m ²]	Rated impulse voltage [V]	Stock no.	Product no.
5	AC 24	3 VA 2.5 W	0.8	800	S55499-D134	GDB181.1E/KN
10	AC 24	3 VA 2.5 W	1.5	800	S55499-D135	GLB181.1E/KN

GDB181.EMKN packaging unit 18 pieces.

Basic Documentation No.: P3547

Door/window contact, white

S 290/11

- Opening alarm for the monitoring of windows and doors, comprising:
 - 1 magnet (Ø 8 x 30 mm)
 - 1 magnetically operated contact in a fully cast plastic enclosure (Ø 8 x 30 mm)
 - Switching voltage: max. DC 110 V
 - Switching current: 10...100 mA
 - Contact current carrying capacity: max. 5 W
 - Contact resistance: max. 150 mW
 - VdS-class B
 - 5 m long connection cable LiYY 4 x 0,14 mm²
- Suitable for flush and surface mounting
- 2 surface-mounting enclosure tops (43 x 12 x 12 mm)
- 2 surface-mounting enclosure bottoms
- 4 spacer plates (thickness: 2 x 4 mm or 2 x 2 mm)
- 2 flush-mounting flanges
- 4 antimagnetic countersunk self-tapping screws DIN 7982-ST2, 9 x 16-A2



Data sheet	A6V11793756
Dimensions (W x H x D)	43 x 12 x 12 mm
Warranty	24 Months

Stock no.	Product no.
5WG1290-7AB11	S 290/11

AP 254/02



KNX Dual sensor for brightness measurement, temperature measurement, sun protection control, lighting control

- Brightness measurement, temperature measurement, sun protection control, lighting control
- For the detection and transmission of brightness and temperature
 - Temperature measuring range -25 °C...+55 °C
 - Brightness measuring range 1 Lux...100 kLux
 - Horizontal sensing angle -60°...+60°, vertical -35°...+66.5°
- For the control of switch, dimming and shutter/blind actuators, depending on the ambient luminosity and/or ambient temperature
- One sun protection channel for the automatic control of sun protection equipment, with
 - Starting and stopping of automation by means of an object or a dusk threshold
 - Up to three brightness thresholds for determining the height and position of the shutters/blinds or roller shutters
 - Optional teach-in of dusk thresholds and brightness thresholds by means of a teach-in facility
 - Blocking object for the temporary deactivation of the sun protection channel function
- Up to four universal channels for the control of switch, dimming and shutter/blind actuators, depending on ambient luminosity and/or temperature. Optionally available with:
 - Threshold switches for brightness
 - Threshold switches for temperature
 - Threshold switches with logical combination of brightness and temperature
 - Optional teach-in of brightness threshold for each universal channel by means of an associated teach-in facility
 - Deactivation option for each universal channel by means of an associated blocking object (1 bit)
 - Optional second object for transmission of a second telegram on fulfillment of threshold conditions
- Bus-powered electronics
- Integrated bus coupling units
- Bus connection via bus terminal
- Surface mounting
- Degree of protection: IP54

Data sheet

A6V10416100

Dimensions (W x H x D)

72 x 110 x 54 mm

Warranty

24 Months

Stock no.

Product no.

5WG1254-3EY02

AP 254/02

Heating, ventilation and air conditioning - primary control

Communicating controllers - Synco™ 700

Universal controllers RMU7..0B..

RMUB..



Universal controller

- Universal controllers with integrated control and supervisory functions
- Suited for the controlled variables temperature, relative / absolute humidity, pressure / differential, air flow rate, indoor air quality, etc.
- Autonomous sequence controllers with P, PI or PID mode
- Tested, predefined applications (refer to Application Catalog)
- Flexible configuration
- Clear-text operation with separate operator unit (plug-in type or detached)
- Integrated KNX bus communication
- No commissioning tool required

The RMU7..0B-1 supports the languages: English, German, French, Italian, Spanish, Portuguese, Dutch, Danish, Finnish, Norwegian, Swedish, Polish, Czech, Hungarian, Russian, Slovak, Bulgarian, Greek, Romanian, Slovenian, Serbian, Croatian, Turkish, Chinese.

Extension modules complement the universal controller and offer extra functions. They are attached to the controller via plug-in connectors. The extension modules do not operate autonomously. The operation of the device from commissioning to enduser operation can be done via the operator unit.

Available extension modules:

- 1 universal module RMZ785
- 2 universal modules RMZ787
- 2 universal modules RMZ788

A total of 4 extension modules can simultaneously be used with the universal controller.

Available operator units:

- Plug-in type operator unit RMZ790
- Detached operator unit RMZ791
- Bus operating unit RMZ792

Data sheet	N3150
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	12 VA
Communication	KNX (KNX TP1)
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Universal input, signal	LG-Ni1000
	T1 (PTC)
	Pt1000
	0...1000 Ohm
	1000...1175 Ohm
	DC 0...10 V
	Digital pulse contact
	Potential-free digital status contact
	2 x LG-Ni1000
Relay output, switching voltage	AC 19...250 V
Relay output, switching current	4 (3) A
Dimensions (W x H x D)	173 x 90 x 80 mm
Degree of protection	IP20

Range overview RMU7..0B..

Analog outputs, number	Universal-inputs, number	Relay outputs, number	Control loops, number	Stock no.	Product no.
2	6	2	1	BPZ:RMU710B-1	RMU710B-1
3	8	4	2	BPZ:RMU720B-1	RMU720B-1
4	8	6	3	BPZ:RMU730B-1	RMU730B-1



Gateways, interface converters

KNX/Ethernet	94
KNX/DALI	96
KNX/BACnet	98
KNX/USB	99

OZW772..



Web server for Synco devices

Web server OZW772 allows for remote plant control and monitoring via the web.

- Operate web browser via PC/laptop and Smartphone
- Operate ACS (PC/laptop with ACS plant operating software)
- Connections: USB and Ethernet
- Display fault messages in the web browser
- Send fault messages to a maximum of 4 e-mail recipients
- Periodically send system reports to e-mail recipients
- Visualize the plants in the web browser based on standard plant diagrams and customized plant web pages
- Acquire and display consumption data
- Send consumption data file to 2 email recipients
- Function "Energy indicator" to monitor data points for energy-related limit values, or "Green limits"
- Web services for external applications via Web API (Web Application Programming Interface)
- Encrypted with https and TLS for e-mails
- Record of trends, display and dispatch to 2 e-mail recipients
- Integration up to 237 S-Mode data points of KNX devices (not OZW772.01)
- Direct commissioning with web browser or ACS service tool
- Easy and secure remote access and plant overview with Synco IC Remote Access - a web-based service for secure remote access (www.siemens-syncoic.com)

Internet portal Synco IC offers simple and secure access to your plants

- Simple and fast set up of access via the Internet (fixed net- or mobile router)
- The portal provides additional functions:
 - Manage one or multiple plants
 - Central user management
 - Display of plant overview, state of Energy indicators and alarms
 - Send alarm notifications per e-mail
 - Secured communications through encryption (https)

Web servers OZW772.01, OZW772.04, OZW772.16, OZW772.250 can connect 1, 4, 16, or 250 KNX devices from the product ranges Synco 700, Synco RXB, and RDG/RDF room thermostats, and the QAX Synco living central apartment units.

Data sheet	N5701
Operating voltage	Power pack: AC 230 V Web server: DC 24 V
Communication	KNX TP (twisted pair) Ethernet, RJ45 plug socket (shielded) USB V2.0
Mounting	On DIN rails With Screws
Degree of protection	IP30
Dimensions (W x H x D)	87.5 x 90 x 40 mm

Range overview OZW772..

Product Title	Stock no.	Product no.
Web server for 1 Synco device	BPZ:OZW772.01	OZW772.01
Web server for 4 Synco devices	BPZ:OZW772.04	OZW772.04
Web server for 16 Synco devices	BPZ:OZW772.16	OZW772.16
Web server for 250 Synco devices	BPZ:OZW772.250	OZW772.250

KNX IP Control Center

Visualisation controller for full-graphic visualizations on web-compatible end devices such as PCs, tablets and smart phones with a standard web browser.

For communication between KNX devices and PCs and, in connection with a LAN-/WLAN modem or DSL router, for remote access to a KNX installation, for usage as an interface for the ETS 3/4/5 and as an interface for a visualization, with usage of the KNXnet/IP protocol, with the following simultaneously usable functions:

- Web server for operating and monitoring up to 1250 statuses and values transmitted by the KNX network, which can be displayed using a standard browser on PCs, tablets, or smartphones connected to the IP network
- Special web-configuration page for a firmware update, to set the IP configuration, SMTP server, security settings, password protection, certificates, Sonos module, API connection and restart
- Graphical web editor for a creation of fully graphical visualization with control and display elements, configurable in various styles
- Smart editor for the creation of a visualisation, tuned for mobile browsers, smartphones, tablets with control and display elements, configurable in various styles and layouts
- Annual timer, with astronomical calendar, for 300 time switch schedules with up to 30 time switch commands per time switch schedule
- Scene module with up to 5000 scenes or events
- Chart module for recording and reporting of up to 10 data points
- Monitoring module for monitoring and storage of up to 1000 events into a ring buffer
- IP interface for control of up to 20 IP-devices via up to 20 TCP/UDP commands per IP-device
- Fully graphical logic module with up to 1000 logic functions
- Alarm function for up to 250 different alarms
- E-mail function, with up to 20 contacts, for transmission of chart data from chart module, logged data from monitoring module or alarm data
- Data point management for viewing, managing, editing and categorizing all available data points
- Module for controlling SONOS loudspeakers
- Module for controlling the Philips HUE LED lighting system
- Ethernet interface 10/100 Mbits/s with RJ45 socket for connection to the IP network using the Internet Protocol
- 2 LED displays for IP connection/communication and for error messages
- Integrated bus connector and bus terminal for connection to a KNX network
- Power supply of the electronics by an external voltage source for AC/DC 24 V, 50 mA
- Series installation device for mounting on support rails TH35 DIN EN 60715

Data sheet	A6V10417875
Dimensions (W x H x D)	72 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	4 MW
Warranty	24 Months

N 152/01



Stock no.	Product no.
5WG1152-1AB01	N 152/01

N 141/03, N 141/21



KNX/DALI Gateway plus/Twin plus

- With emergency lighting, with sensors
 - For communication via KNX with electronic ballasts (ECG) with a DALI interface
 - Integrated power supply with input voltage AC 110-240 V, 50-60 Hz or DC 120-240 V for powering the gateway electronics and DALI output
 - Maximum DALI output voltage of 19 V, short circuit resistant
 - Incorrect voltage detection during commissioning if incorrect power line is connected to a DALI output
 - LED display for displaying operation mode and error messages
 - Pushbutton for switching between bus and direct operating mode
 - One pair of pushbuttons for switching On/Off of all connected DALI ECG
 - One LED per DALI output for status signal of all connected luminaries in direct mode
 - Configurable behaviour for bus failure (stand-alone mode)
 - Configurable pre-loaded applications without ETS
 - Scheduler for day, week, date with astro function
 - Control of all connected luminaries together in broadcast mode
 - Status signal and display of lamp and ECG failure per group and per DALI device
 - Transformation of dimming commands into a temporary setpoint adjustment for ECG with integrated constant light level control and directly connected light level sensor
 - One or two level timer
 - Up to 4 integrated one time or cyclical control of repeatable sequences or color effects
 - Starting the self-conducted testing of each individual inverter and reporting the test result via bus or save in a persistent memory with memory space monitoring over object
 - Distinction between function test, short duration test, and long duration test
 - Per channel up to 6 stand-by-area analysis for activation of switch actuators
 - Scene control for up to 16 scenes per channel
 - 16 integrated 2-level-controller for brightness control and 16 constant light level controller for main luminaries group and up to four additional luminaries groups
 - Assignment of a CIN to a DALI ECG
 - Reintegration defective DALI ECG without ETS
 - Assignment of DALI ECG to groups and test option for ECG, groups, scenes and effects via ETS
 - Assignment of DALI sensors and test option of sensors via ETS
 - Integrated bus coupling unit with only half a standard bus load, bus connection via bus terminal
 - Mounting on DIN rail EN 60715-TH35-7.5
-
- Configurable assignment of max. 64 DALI ECG per channel to max. 16 DALI groups per channel, exclusive controlled in groups or single (switching, dimming, set dimming value and color temperature) and feedback for group status and lamp failure
 - Support of DALI DT8 ECG for colour temperature control (Tunable White). Individual, group, scene, effect and schedule control for Human Centric Lighting
 - Configurable function burn-in for all ECG via pushbutton or single via object
 - Distinction between self-contained emergency luminaries with one or two DALI devices
 - Optional configuration of any DALI ECG to dim to a preset dimming value in emergency mode
 - Locking of switching and dimming commands as well as configuration while emergency mode is activated
 - Activation of emergency mode based on a configurable number of failed DALI ECG
 - Lock object to elimination of failure messages interruption of ECG during emergency lighting testing
 - Inhibit mode for disabling battery mode of self-contained emergency luminaries over pushbutton

Data sheet

A6V10466086

8

Range overview N 141/03, N 141/21

Product Title	Dimensions (WxHxD) [mm]	Dimension width (1 MW = 18 mm)	Stock no.	Product no.
KNX/DALI Gateway plus, 1 channel	72 x 90 x 60	4 MW	5WG1141-1AB03	N 141/03
KNX/DALI Gateway Twin plus, 2 channels	72 x 90 x 60	4 MW	5WG1141-1AB21	N 141/21

KNX/DALI Gateway Twin

N 141/31



- Communication via KNX EIB with electronic ballasts (ECG) with a DALI interface
- Two DALI outputs with DALI-2 certification acc. to IEC 62386-101 and 103, each for communication with up to 64 DALI ballasts
- Integrated power supply with input voltage AC 110...240 V, 50...60 Hz or DC 120...240 V for powering the gateway electronics and DALI output
- Support of ECGs Type 0, 1, 2, 3, 4, 5, 6, 7 and 8 according to EN 62386 edition 1 as well as edition 2 (DALI-2)
- Maximum DALI output voltage of 19 V, short circuit resistant
- Incorrect voltage detection during commissioning, whether incorrect power line is connected to a DALI output
- LED display for displaying operation mode and error messages
- Pushbutton for switching between bus and direct operating mode
- One pair of pushbuttons for switching On/Off of all connected DALI ballasts
- One LED per DALI output for status signal of all connected luminaries in direct mode
- Configurable behaviour for bus failure (stand-alone mode)
- Control (switching, dimming, set dimming value) of all connected luminaries together in broad-cast mode
- Status signal and display of lamp and ECG failure per group and per DALI device
- One or two level timer
- Integrated scene control for up to 32 scenes
- Assignment of DALI ECG to groups and test option for ECG, groups and scenes via ETS during commissioning
- Possibility to reintegrate defective DALI ECG without software
- Integrated bus coupling unit with only half a standard bus load
- Bus connection via bus terminal
- Mounting on DIN rail EN 60715-TH35-7.5

The following options are selectable, depending on the application program:

- Configurable assignment of max. 128 DALI ECG to max. 32 DALI groups, exclusive controlled in groups or single (switching, dimming, set dimming value and color temperature) and feedback for group status and lamp failure
- Support of DALI DT8 ECGs for colour temperature control Tc, Tunable White according to EN 62386 part 209. individual, group, scene, effect and schedule control for Human Centric Lighting (HCL)
- Configurable function burn-in for all ECG via pushbutton or single via object
- Up to twelve stand-by-area analysis for activation of switch actuators
- Distinction between self-contained emergency luminaries with one or two DALI devices
- Optional configuration of any DALI ECG to dim to a preset dimming value in case of emergency mode
- Locking of switching and dimming commands as well as configuration while emergency mode is activated
- Activation of emergency mode based on a configurable number of failed DALI ECG
- Lock object to elimination of failure messages interruption of ECG during emergency lighting testing
- Inhibit mode for disabling battery mode of self-contained emergency luminaries over pushbutton

Data sheet	A6V10466084
Dimensions (W x H x D)	72 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	4 MW
Warranty	24 Months

Stock no.	Product no.
5WG1141-1AB31	N 141/31

N 143/01



IP Gateway KNX/BACnet

- BACnet Application Specific Controller (B-ASC) as Gateway between KNX TP and BACnet IP
- Up to 250 BACnet objects
- Up to 455 BACnet COV subscriptions
- Automatic translation of KNX communication objects into BACnet objects according to the configuration with ETS
- For communication between KNX devices and PCs or other devices with Ethernet (10BaseT) interface, as well as in conjunction with a LAN modem or DSL router for remote access to an KNX installation
- For use as an interface e.g. for ETS or for visualization software
- Use the KNXnet/IP protocol
- KNXnet/IP Tunneling connection for parallel bus access by ETS and further PC software
- Assignment of the network parameters by the installer using ETS, or automatically by a DHCP server in the network
- 2 LEDs for display of operational availability and IP communication
- Additional power supply by an external safety extra low voltage power supply for AC/DC 24 V, 40 mA
- Pluggable terminal block for connection of external power supply unit (not included)
- Integrated bus coupling unit with bus connection via bus terminal
- Ethernet connection via RJ45 socket
- Mounting on DIN rail EN 60715-TH35-7.5

Data sheet	A6V10466141
Dimensions (W x H x D)	72 x 90 x 60 mm
Dimension width (1 MW = 18 mm)	4 MW
Warranty	24 Months

Stock no.	Product no.
5WG1143-1AB01	N 143/01

KNX USB Interface

N 148/12

- Compatible with USB 2.0 and USB 3.0
- For isolated access to the bus line over the built-in USB socket (type B)
- For connection of a PC for addressing, parameterization, visualization, logging and diagnosis of bus devices
- Access to all bus devices in the whole bus system
- Support of bus telegrams with up to 64 bytes length
- Power supply over the bus line and over USB through the connected PC
- Integrated bus coupling unit, bus connection over bus terminal
- Transmission at USB 2.0 speed (max. 12 Mbit/s) between PC and USB interface
- Modular installation device for mounting on TH35 DIN EN 60715 mounting rail



Data sheet	A6V11535346
Dimensions (W x H x D)	18 x 90 x 55 mm
Dimension width (1 MW = 18 mm)	1 MW
Warranty	24 Months

Stock no.	Product no.
5WG1148-1AB12	N 148/12

Service tool for KNX / LPB

OCI700.1

The service tool consists of:

- OCI700 service interface
- USB cable
- Service cable for Synco™ controllers
- Service cable for SIGMAGYR® and ALBATROS controllers
- Download information for the ACS790 PC Tool: www.siemens.com/acs790



Commissioning and diagnostics of the following devices:

Synco devices:

- Web Server OZW772
- Heating controller RMH760B-1
- Boiler sequence controller RMK770-1
- Universal controllers RMU7..0B-1
- Universal controllers RLU2..
- Switching and monitoring device RMS705B-1
- Room unit QAW740
- Central control unit RMB795B-1
- Individual room controllers RXB..
- Signal converter SEZ220
- Synco™ living central apartment unit QAX9..
- Synco™ thermostats RDF.., RDG..
- Sensors: QMX3.P30, QMX3.P70, AQR253.. and AQR257..

Data sheet	N5655
Voltage supply	USB
Degree of protection	IP20
Color	Gray
Warranty	24 Months

Stock no.	Product no.
BPZ:OCI700.1	OCI700.1

OCI702



USB - KNX Service interface

The service interface consists of:

- OCI702 service interface
- USB 2.0 cable (Type A / B)
- KNX service cable for Synco™ controllers (RJ45 / RJ45)
- KNX service cable for Desigo™ TRA (RJ45 / jack plug 2.5 mm)
- KNX service cable (RJ45 / KNX bus terminal)

With the respective PC software, the interfaces allows to commission and service devices with KNX communication, e.g. from the following ranges:

- Synco™ 700 controllers and room devices
- KNX room thermostats RDF..., RDG..
- Individual room controllers RXB..
- Synco™ living central apartment units QAX9...
- Desigo TRA
- GAMMA devices

Data sheet	A6V10438951
Degree of protection	IP20
Warranty	24 Months

Stock no.	Product no.
S55800-Y101	OCI702

Wireless and IoT

Connect Box	102
Wireless room solution	103
IAQ multi-sensor	107

CWG.BOX..



Connect Box Hardware

The Connect Box is a simple, universal, and open IoT solution to connect and monitor small and medium-sized buildings.

Users can start within a day thanks to plug & play installation and the simple configuration and intuitive UI.

Improving energy efficiency, building comfort and reducing costs in existing buildings has never been that easy.

- > Library of over 500 field devices ready to connect
- > Smart converter of 11 communication protocols, both standard and proprietary, wired and radio
- > Default data retrieval at 10-minutes intervals (excluding IoT-sensors that have their own frequencies to minimize battery consumption). Commands (downlink) are sent instantly
- > Local or cloud connectivity via 4G IP, field bus
- > Over-the-air updates via 4G
- > Local IoT private network based on LoRa
- > Powerful integration up to 3rd party applications
- > Full-service, no networking skills required thanks to 4G cloud connectivity
- > BMS essentials included in user console on connectbox.siemens.com
- > Public API management and documentation

Operating voltage	DC 12...24 V
Max. cable length	1000 m
Connection cable	2-wire 0.35 mm ² ; Copper
Interfaces	Ethernet USB 1.1 USB 2.0 RS-485
Interface type	RS 485 Ethernet KNX-bus
Memory	512 MB RAM 4 GB Flash
Mounting	DIN rail
Degree of protection	Wall mounting with screws IP30-Vorderteile im DIN-Ausschnitt IP20-Terminalteil

Range overview CWG.BOX..

Product Title	Stock no.	Product no.
Connect Box Hardware	S55813-Y110	CWG.BOX-NA

Thread mesh extender

OCT100.R



The Thread mesh extender provides IoT connectivity and enables communication via Thread.

- Compatible with all Siemens KNX IoT / Thread devices
- Extends the wireless range by bridging from wireless thread communication to wireless thread communication (also called repeater functionality)
- Reliable network operation with mesh network functionality
- Mains powered by external power supply adapter (AC 100...240 V)
- Clear status indication with integrated LEDs
- Dimensions: 92 x 26 x 77 mm

Operating voltage	AC 90...264 V
Frequency	50/60 Hz
Ambient temperature, operation	0...+40 °C
Ambient temperature, storage	-30...+70 °C
Mounting	Surface mounted (plaster)
Color	White
Dimensions (W x H x D)	92 x 26 x 77 mm
Warranty	24 Months

Stock no. Product no.

S55812-Y101 OCT100.R

KNX IoT to BACnet IP gateway

OCT200.KNBA



KNX IoT to BACnet IP gateway

- Gateway between KNX IoT devices and BACnet IP devices/systems
- Integrated wireless communication via KNX IoT over Thread
- BACnet IP communication via integrated Ethernet port
- Easy commissioning and configuration of KNX IoT devices and BACnet IP communication via integrated Web UI
- Mains powered by external power supply adapter (AC 100...240V)
- Clear status indication with integrated LEDs
- Dimensions: 117 x 117 x 43 mm

Data sheet	A6V13434938
Operating voltage	AC 90...264 V
Voltage supply	External power supply adapter
Frequency	50/60 Hz
Power consumption	12 W
Ambient temperature, operation	0...50 °C
Ambient humidity, operation	5...95 % r.h.
Ambient temperature, storage	-25...+70 °C
Mounting	Wall Ceiling
Degree of protection	IP30
Weight (net)	0.187 kg
Color	White (RAL9016)
Dimensions (W x H x D)	117.47 x 117.47 x 42.68 mm
Warranty	24 Months

Stock no. Product no.

S55812-Y102 OCT200.KNBA

QAA2890/WI



Wireless room sensor, KNX IoT/Thread, Temperature

Wireless room sensor for temperature

- Wireless communication via KNX IoT over Thread
- Measurement accuracy up to ± 0.3 °C
- Up to 10 years battery lifetime (under normal operating conditions)
- Dimensions: 88 x 88 x 14 mm

Data sheet

A6V12871702

Operating life of battery

Up to 10 years (under normal operating conditions with 10 minutes wake-up cycle)

Power consumption

Max. 20 mA

Sensing element

Temperature sensor

Measuring range, temperature

0...50 °C

Sensing element, temperature

Digital

Time constant

Temperature: ≤ 8.5 min (depending on air movement and thermal coupling to the wall)

Measuring range

0...5000 ppm CO₂

Measurement accuracy

Temperature at 21...25 °C: ± 0.3 K
Temperature at 15...21 °C/25...35 °C: ± 0.7 K
Temperature at 0...15 °C/35...50 °C: ± 1 K

Communication

2400...2483.5 MHz

Indoor wireless range

50 m

Analog outputs

Wireless (WRS)

Display

No display

Color

White (RAL9016)

Degree of protection

IP30

Dimensions (W x H x D)

88 x 88 x 14 mm

Warranty

24 Months

Stock no.

Product no.

S55720-S550

QAA2890/WI

Wireless room sensor, KNX IoT/Thread, Temperature & Humidity

QFA2890/WI



Wireless room sensor for temperature & humidity

- Wireless communication via KNX IoT over Thread
- Measurement accuracy up to ± 0.3 °C & ± 2 % r.h.
- Up to 10 years battery lifetime (under normal operating conditions)
- Dimensions: 88 x 88 x 14 mm

Data sheet	A6V12871702
Operating life of battery	Up to 10 years (under normal operating conditions with 10 minutes wake-up cycle)
Power consumption	Max. 20 mA
Sensing element	Temperature sensor, relative humidity sensor
Measuring range, temperature	0...50 °C
Sensing element, temperature	Digital
Time constant	Rel. humidity: 20 s (depending on air flow) Temperature: ≤ 8.5 min (depending on air flow and thermal coupling to the wall)
Measuring range	0...5000 ppm CO ₂
Measurement accuracy	Rel. humidity at 30...70 % r.h.: ± 2 % r.h. Rel. humidity at 0...30 % r.h./70...100 % r.h.: ± 5 % r.h. Temperature at 21...25 °C: ± 0.3 K Temperature at 15...21 °C/25...35 °C: ± 0.7 K Temperature at 0...15 °C/35...50 °C: ± 1 K
Communication	2400...2483.5 MHz
Indoor wireless range	50 m
Display	No display
Color	White (RAL9016)
Degree of protection	IP30
Dimensions (W x H x D)	88 x 88 x 14 mm
Warranty	24 Months

Stock no.

Product no.

S55720-S551

QFA2890/WI

QPA2892/WI



Wireless room sensor, KNX IoT/Thread, Temperature, Humidity & CO2

Wireless room sensor for temperature, humidity and CO2

- Wireless communication via KNX IoT over Thread
- Measurement accuracy up to ± 0.3 °C, ± 2 % r.h. & ± 50 ppm CO2
- Up to 7 years battery lifetime (under normal operating conditions)
- Dimensions: 88 x 88 x 18 mm

Data sheet	A6V12871702
Operating life of battery	Up to 7 years (under normal operating conditions with 10 minutes wake-up cycle)
Power consumption	Max. 20 mA
Sensing element	Temperature sensor, CO2 sensor, relative humidity sensor
Measuring range, temperature	0...50 °C
Sensing element, temperature	Digital
Time constant	Rel. humidity: 20 s (depending on air flow) Temperature: ≤ 8.5 min (depending on air flow and thermal coupling to the wall) CO2: ≤ 5 min (depending on air flow)
Measuring range	0...2000 ppm CO ₂
Measurement accuracy	Rel. humidity at 30...70 % r.h.: ± 2 % r.h. Rel. humidity at 0...30 % r.h./70...100 % r.h.: ± 5 % r.h. Temperature at 21...25 °C: ± 0.3 K Temperature at 15...21 °C/25...35 °C: ± 0.7 K Temperature at 0...15 °C/35...50 °C: ± 1 K CO2 at 0...2000 ppm: ± 2 % m.v. / ± 50 ppm
Communication	2400...2483.5 MHz
Indoor wireless range	50 m
Display	No display
Color	White (RAL9016)
Degree of protection	IP30
Dimensions (W x H x D)	88 x 88 x 18 mm
Warranty	24 Months

Stock no. Product no.

S55720-S552 QPA2892/WI

Indoor Air Quality Multi-Sensor

QNA...



Indoor Air Quality multi-sensor

- A 7in1 sensor acquires value of temperature, r.H., CO₂, VOC, particle matter as well as sound pressure and illuminance as complementary info.
- It is compliant with WELL, LEAD building certification in term of people's wellbeing. One typical use case is to monitor the indoor air quality status in WELL certified buildings.
- Available with (depending on the variant chosen),

BACnet IP

BACnet MSTP

LoRaWAN for EU/US/AU

Measuring range, temperature	0...90 °C
Measurement range humidity	0...100 % r.h.
Measuring range	400...5000 ppm CO ₂
Measurement accuracy	±3 % r.h.±3 % r.h.
Ambient temperature, operation	-5...+40 °C
Display	LED
Communication	BACnet IP, BACnet MSTP, LoRaWAN

Range overview QNA...

Product Title	Dimensions (WxHxD) [mm]	Stock no.	Product no.
IAQ multi-sensor BACnet IP, RESET Certified	98 x 98 x 34	S55720-S572	QNA2700D.BA1
IAQ multi-sensor BACnet MSTP, RESET Certified	98 x 98 x 34	S55720-S573	QNA2700D.BA2
IAQ multi-sensor LoRaWAN AU, RESET Certified	98 x 98 x 34	S55720-S576	QNA2820D.AU