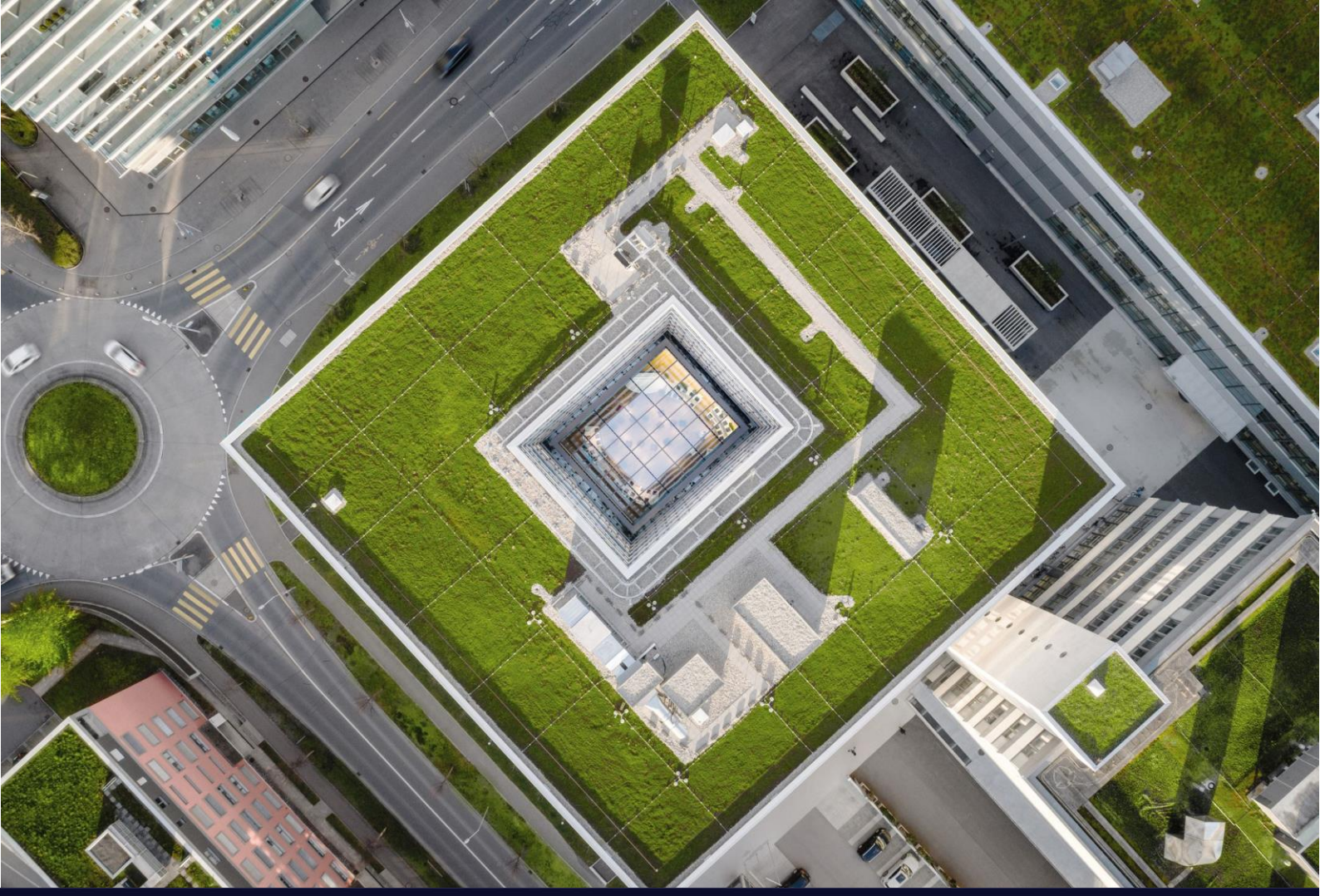

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SIEMENS

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New Product

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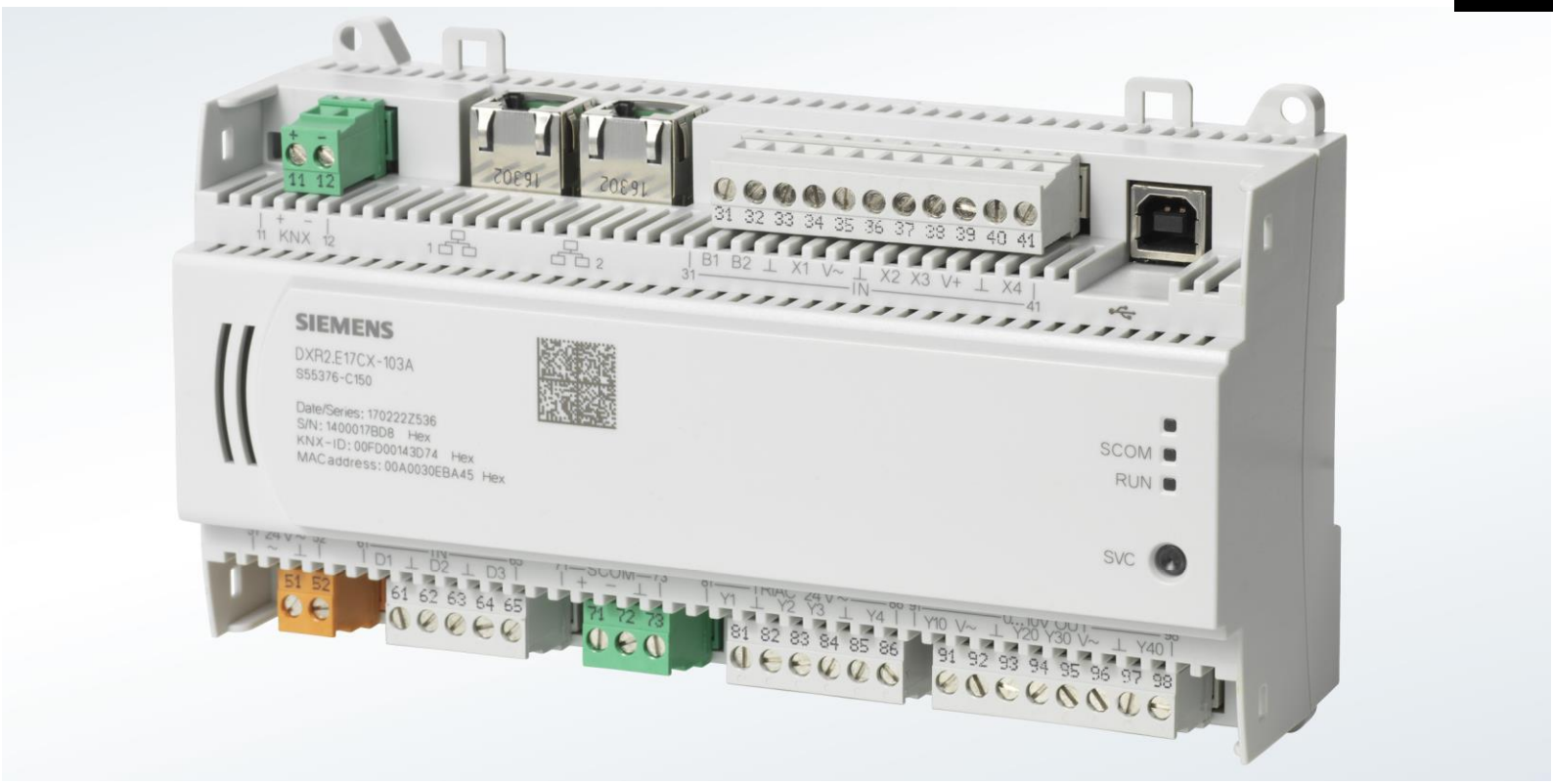
Room automation



RXB applications

RXB hardware

The product range comprises compact controllers and corresponding room units for comfortable control. The compact room controllers are optimized to the respective application with regard to input/output configuration. HVAC functions are operated via standard room units. Communication is based on KNX S-mode. The fan coil room controllers communicate also in KNX LTE mode. KNX LTE mode is used to communicate with control equipment from the Synco™ 700 product range.

RXB software

Each RXB unit comes with preloaded application software featuring one or several applications (see next page).
The ETS software helps engineer and commission a network with RXB units.
In addition, the Synco™ tool and room unit QAX34.3 by Siemens can be used for commissioning and parameterization.
To use QMX3 room operating units or sensors ETS-software must be used in every case.

Integration into Synco™

The central control unit RMB795B-1 is used for controlling and monitoring the RXB controllers in a Synco™ system.

Connection to the Desigo building automation and control system

Desigo PX KNX allow for flexibly connecting RXB controllers to the Desigo building automation and control system, and hence acts as a gateway to BACnet. The connection provides access to other functions such as time schedules and central control of setpoints.
RXB thus fits into the overall expandable modular system, and ensures long-term cost-efficiency.

HVAC

Chilled ceiling Radiator-type systems

Fan coil units

KNX

QAX30
QAX31
QAX32
QAX33
QAX34
QAX39
QAX84
QMX3.P30 *
QMX3.P34 *
QMX3.P37 *
AQR2531..

RXB21.1
RXB22.1
RXB24.1
RXB39.1

Room units ⟷ Controller

* ETS-software must be used

Fields of application

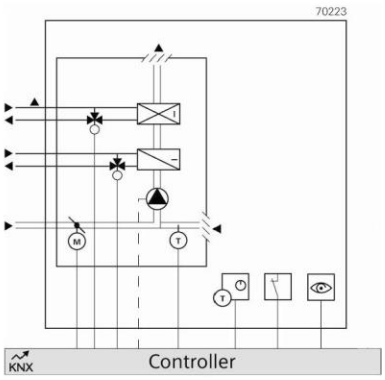
The scope of RXB is defined by the preprogrammed application software. The following pages provide an overview of the options and the corresponding devices, divided into different areas of application. The devices are supplied preprogrammed with the applications. The required application can be selected by means of the ETS, Synco™ tool or the Handy tool QAX34.3.

Due to the fact that the applications are predefined, engineering simply involves the definition of a small number of parameters, e. g.:

- PWM or 3-point control of the valves and actuators (RXB39.1: 0-10 V DC control of motoric actuator)
- Temperature setpoints
- Manual or automatic fan control

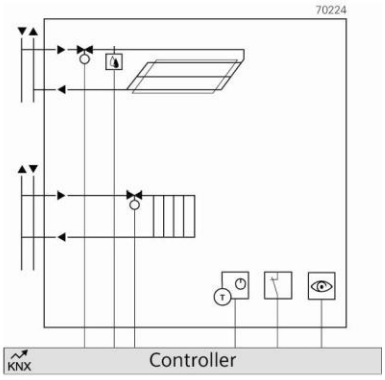
Fan coil systems

Application	Description	Devices
FNC02	2-pipe system with changeover	RXB21.1/FC-10
FNC03	2-pipe system with changeover and electrical reheater	RXB22.1/FC-12
FNC04	4-pipe system	RXB21.1/FC-10
FNC05	4-pipe system with electrical reheater	RXB22.1/FC-12
FNC08	4-pipe system with supply air temperature limitation	RXB21.1/FC-10
FNC10	2-pipe system with changeover and outside air damper	RXB21.1/FC-11
FNC12	4-pipe system with outside damper	RXB21.1/FC-11
FNC18	2-pipe system with change over and radiator	RXB21.1/FC-11
FNC20	4-pipe system with air-side control	RXB21.1/FC-10
FNC02/03/04/08	2-pipe/4-pipe system with EC fan-coil support	RXB39.1/FC-13



Common functions

- Window contact, occupancy detector, 4 operating modes
- Manual fan control with room unit
- Automatic fan control (RXB21.1/RXB22.1 three speed; RXB39.1 continous speed 0...10 V)
- Options for 2-pipe systems: heating only, cooling only or change-over, via KNX bus



Heated/chilled ceilings and radiators

Application	Description	Devices
CLC01	Chilled ceiling with dewpoint monitoring	RXB24.1/CC-02
CLC02	Chilled ceiling with dewpoint monitoring and radiator	RXB24.1/CC-02
RAD01	Radiator with downdraft compensation	RXB24.1/CC-02

Common functions

- Window contact, occupancy detector, 4 operating modes

Room operation







				QAX..			
Features	30.1	31.1	32.1	33.1	34.3	39.1	84.1
Display					■		■
Mode selection			■	■	■		■
Fan switch				■	■		■
Setpoint adjuster		■	■	■	■	■	■
Temperature sensor	■	■	■	■	■		■
Mounting							
Flush-mounted						■	■
Directly on wall	■	■	■	■	■		
Control panel(door)						■	
Communication							
PPS2	■	■	■	■	■	■	■

Room units KNX



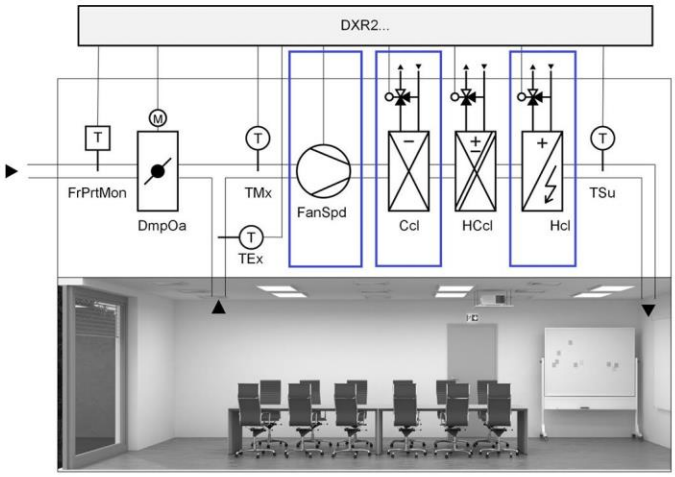

		QMX3..		AQR..
Features	P30	P34	P37	2570.. & 253..
Display		■	■	
Mode selection		■	■	
Fan switch		■	■	
Setpoint adjuster		■	■	
Temperature sensor	■	■	■	■
Mounting				
Flush-mounted				■
Directly on wall	■	■	■	
Communication				
KNX	■	■	■	■

Usage of DXR

1. Check application requirements

Requirements

- Fan coil
- 4-pipe system
- 3-speed fan
- 2 valves with electrothermal actuators (2-point control signal)
- Voltage AC 230 V
- Presence detector
- Room unit with built-in temperature sensor



	Frost protection (FrPrtMon)	Outside air damper (DmpOa)	Extract air temperature (TEx)	Mixed air temperature (TMx)	Fan speed (FanSpd)	Cooling coil (Ccl)	Heating/ cooling coil (HCcl)	Heating coil (Hcl)	Supply air temperature (TSu)
DI									
AI									
Relais					3				
Triac						1		1	
0..10 V									
Relais + 0..10 V									

2. Find matching products in overview tables

Products matching application requirements above:

Product Number	Description	Qty
DXR2.E10	Compact room automation stations, BACnet/IP, 230 V	1
QMX3.P34	Room operator unit KNX with temperature sensor, segmented backlit display, touchkeys	1
UP 258D11	Passive infrared presence detector	1
STP73	Electrothermal actuator, AC/DC 24 V, NO, 2P, 1 m	2
VMP47.10-1.6	3-port seat valve with bypass, external thread, PN16, DN10, kvs 1.6	2

Note:
Product overview tables provide quick overview and show main features, nevertheless, we recommend checking technical parameters of each product.

3. Check total data points and bus load

Used DXR2.. on-board data points:	5
KNX PL-link data points:	5
Total used data points:	10 < **30**
Total KNX PL-link bus load:	17.5 mA < **50 mA**

Correct, total values do not exceed maximum configuration.

Application configuration

Applications can be configured by combining functions from one or several application types:
- Room sensor and operating
- Radiant (heated/chilled) ceiling and Radiator
- Fan coil
- VAV system or Fan powered box
- Radiant (heated/chilled) ceiling and Radiator
- Lighting
- Shading

Configuration is limited by total number of data points.

Application group Central functions requires dedicated room automation station.

Room Automation Station

					
Communication					
BACnet/IP	DXR1.E09PDZ-11	DXR1.E09PDZ-11	DXR1.E10PL-112	DXR1.E10PL-113	DXR2.E10PL(X)-102B
Application types					
Room operating	■ (QMX1 only)	■ (QMX1 only)	■	■	■
Heated / Chilled ceiling and Radiator			■	■	■
Fan coil					
VAV system or fan powered box	■	■	■	■	■ ■
Pressurized and fume hood					
Lighting					■
Shading					■
Central functions					
Damper actuator torque	5 Nm	5 Nm	10 Nm	10 Nm	10 Nm
Operating voltage					
230 V					
24 V	■	■	■	■	■
Inputs and outputs onboard					
Resistor inputs	0	0	0	0	0
Digital inputs	0	0	1	1	1
Universal inputs	2	2	2	2	2
Relay outputs					
Triac outputs	4	4	4	4	4
Analog outputs (DC 0...10 V)	1	1	1	1	1
Pressure sensor	1	1	1	1	1
SCOM communication for sensors					
Maximum configuration					
Total data points	n/a	n/a	n/a	n/a	30 (60)
Integrated power supply for KNX (mA)			50	50	50

Configurable controllers



	DXR2.E09-101A	DXR2.E09T-101A	DXR2.E10-101A	DXR2.E12P(X)-102A	DXR2.E18-101A	DXR2.E18-102A	DXR2.E17C(X)-103A
Communication							
BACnet/IP							
Application types							
Room operating	■	■	■	■	■	■	■
Heated / Chilled ceiling and Radiator	■	■	■	■	■	■	■
Fan coil	■	■	■		■		
VAV system or fan powered box				■		■	■
Pressurized and fume hood							■
Lighting	■	■	■	■	■	■	■
Shading	■	■	■	■	■	■	■
Central functions					■*	■*	
Housing							
DIN				■	■	■	
Flat	■	■	■				
Operating voltage							
230 V	■	■	■				
24 V				■	■	■	■
Inputs and outputs onboard							
Resistor inputs	0	0	0	0	0	0	2
Digital inputs	1	1	1	1	2	2	3
Universal inputs	2	2	2	2	4	4	4
Relay outputs	3	1	3				
Triac outputs		4	4	6	8	8	4
Analog outputs (DC 0...10 V)	3	1		2	4	4	4
Pressure sensor				1			
SCOM communication for sensors							■
Maximum configuration							
Total data points	30	30	30	30 (60)	60	60	30 (60)
Integrated power supply for KNX (mA)	50	50	50	50	50	50	50

* Cannot be combined with other applications

Configuration Tool

DXR2.. comes with set of standard applications that can be flexibly configured with the tool ABT Site.

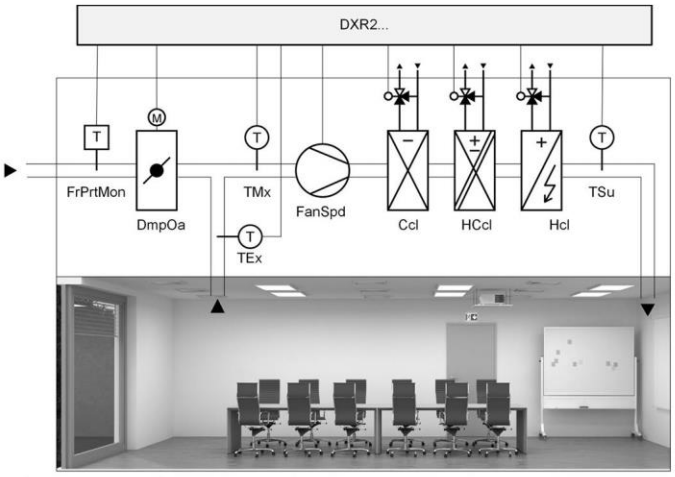
	Product No.	SSN	Description
	CTX-ABT-SITE-SW	P55802-Y169-S100	ABT Site Software

HVAC applications

Application types

Fan coil
Application can be configured from these functions:

- Outside Air Damper
- Single Speed Fan, Multi Speed Fan or Variable Speed Fan
- Chilled water cooling coil
- Direct expansion evaporator cooling coil
- Heating/Cooling coil
- Hot water heating coil
- Electric heating coil modulating, single stage or two stage
- Room temperature control by two-pipe system with change-over
- Room temperature control by four-pipe system
- Supply air temperature cascade control
- Room dehumidification control
- Air volume flow control
- Rapid ventilation
- Green leaf

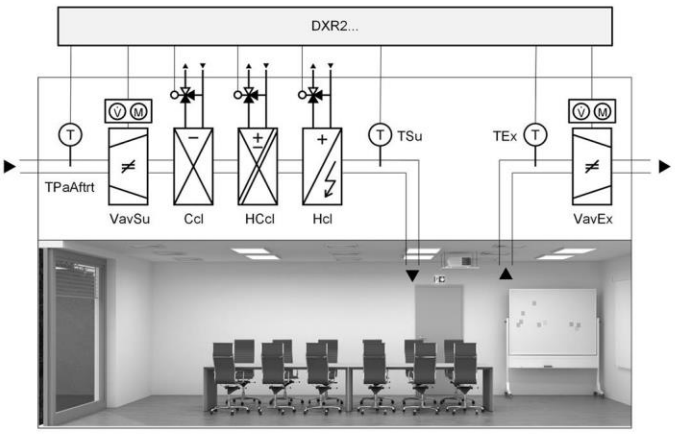


	Frost protection monitor (FrPrtMon)	Outside air damper (DmpOa)	Extract air temperature (TEx)	Mixed air temperature (TMx)	Fan speed (FanSpd)	Cooling coil (Ccl)	Heating/ cooling coil (HCcl)	Heating coil (Hcl)	Supply air temperature (TSu)
DI	1								
AI			1	1					1
Relais					1-3				
Triac		2			1-2	1-2	1, 2, 4 ,8	1-2	
0..10 V		1			1*	1	1, 4	1**	

* Requires additional relais or triac for enable signal
** Requires additional triac for electric heating enable signal

VAV (Variable Air Volume system)
Application can be configured from these functions:

- Supply and extract air control
- External flow control for VAV with integrated flow controller and differential pressure sensor
- Internal flow controller and differential pressure sensor for damper actuator control
- Internal flow controller and velocity sensor for damper actuator control
- Chilled water cooling coil
- Heating/Cooling coil
- Hot water heating coil
- Electric heating coil modulating, single stage or two stage
- Room temperature control by two-pipe system with change-over
- Room temperature control by four-pipe system
- Supply air temperature cascade control
- Air flow tracking for under/overpressure
- Room dehumidification control
- Room air quality control
- Rapid ventilation
- Green leaf

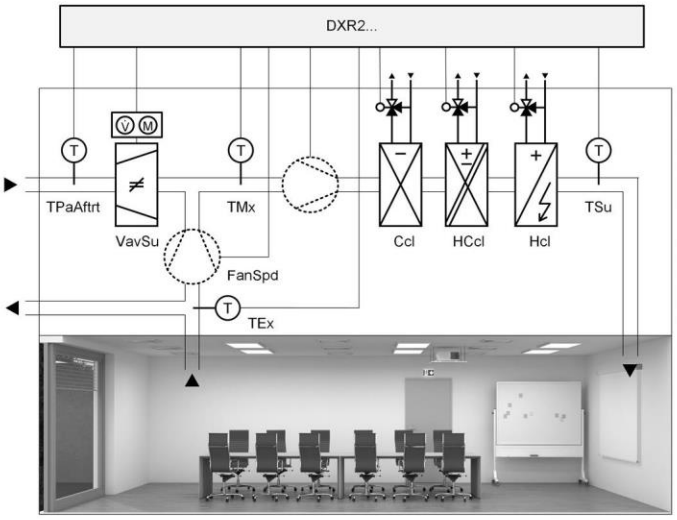


	Primary air temperature for air after-treatment (TPaAftrt)	Supply air VAV (VavSu)	Cooling coil (Ccl)	Heating/ cooling coil (HCcl)	Heating coil (Hcl)	Supply air temperature (TSu)	Extract air temperature (TEx)	Extract air VAV (VavEx)
DI								
AI	1					1	1	
Relais								
Triac		2**	1-2	1, 2, 4 ,8	1-2			2**
0..10 V		1	1	1, 4	1*			1
Actuator for VAV (KNX PL-Link)		1						1

* Requires additional triac for electric heating enable signal
** When using DXR2.. with AC 24 V power supply in combination with GDB181.1E/3 or GLB181.1E/3, use 0..10V signals.

Fan powered box
Application can be configured from these functions:

- Supply air control
- External flow control for VAV with integrated flow controller and differential pressure sensor
- Internal flow controller and differential pressure sensor for damper actuator control
- Internal flow controller and velocity sensor for damper actuator control
- Single Speed Fan, 2 speed Fan or Variable Speed Fan
- Chilled water cooling coil
- Heating/Cooling coil
- Hot water heating coil
- Electric heating coil modulating, single stage or two stage
- Room temperature control by two-pipe system with change-over
- Room temperature control by four-pipe system
- Supply air temperature cascade control
- Room air quality control
- Rapid ventilation
- Green leaf

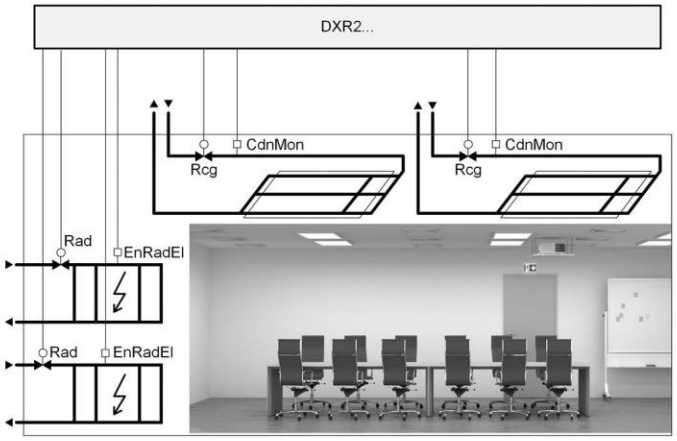


	Primary air temperature for air after-treatment (TPaAftrt)	Supply air VAV (VavSu)	Extract air tempera-ture (TEx)	Mixed air tempera-ture (TMx)	Fan speed (FanSpd)	Cooling coil (Ccl)	Heating/ cooling coil (HCcl)	Heating coil (Hcl)	Supply air tempera-ture (TSu)
DI									
AI	1		1	1					1
Relais									
Triac		2			1–2	1–2	1, 2, 4, 8	1–2	
0..10 V		1			1*	1	1, 4	1**	
Actuator for VAV (KNX PL-Link)		1*							

* Requires additional triac for enable signal
** Requires additional triac for electric heating enable signal

Radiant ceiling and Radiator
Application can be configured from these functions:

- Chilled ceiling with chilled water
- Heated/chilled ceiling by two-pipe system with change-over
- Heated/chilled ceiling by four-pipe system with 6 way valves
- Heating ceiling with hot water
- Hot water radiator
- Electric radiator modulating or staged
- Downdraft compensation for radiators
- Condensation monitor
- Room temperature control
- Green leaf



	Radiator (Rad)	Radiator overtemperature (RadOvrT)	Radiant ceiling (Rcg)	Condensation monitor (CdnMon)
DI		1		1
AI				
Relais				
Triac	1–4		1–4	
0..10 V	1–2*		1–2	

* Requires additional triac or relais for electric heating enable signal

Pressurized rooms and fume hoods

Desigo room pressurization and fume hood control is a range of dedicated reliable air volume flow controllers and supplementary components for secure, precise and fast measurement, control and monitoring of air volume flows and room pressures in highly specialized working spaces. It is part of the Desigo building automation and control system.

As a result, the overall system maximizes security, efficiency and cost effectiveness.

Locations:

- Highly specialized research and manufacturing spaces requiring dedicated high speed control solutions for room pressurization & fume hood control

Rooms in:

- Research facilities
- Pharma/Biotech
- Healthcare
- Hi-tech manufacturing
- Vivariums
- Battery factories
- Universities
- Higher education customers etc.

Applications:

- Room ventilation and general extraction, measuring, controlling and monitoring air volume flows
- Room balancing and room pressurization control
- Laboratory fume hood air volume flow control and monitoring
- Room air conditioning together with lighting & shading control
- Fume hood control with stabilizing jet
- Room and fume hood emergency functions

ASN	Description	Product picture
DXR2.E17C-103A	BACnet/IP, 24VAC, 17 I/O Room Pressurization & Fume Hood Automation Station, 30 data-points	
DXR2.E17CX-103A	BACnet/IP, 24VAC, 17 I/O Room Pressurization & Fume Hood Automation Station, 60 data-points	
QMX3.P87-1WSC	Operating Display Panel – Wall mounted (KNX)	
QMX3.P88-1WSC	Operating Display Panel – Thin & Flush mounted (KNX)	
DXA.S04P1	Air Flow Pressure Sensor (SCOM)	
DXA.S04P1-B	Air Flow Pressure Sensor with IP54 box (SCOM)	
DXA.B130	Sash Sensor 130mm (50")	
DXA.B200	Sash Sensor 200mm (80")	
RPM.S00-SD	Room Condition Monitor	
QVE3001	Flow Sensor	
GAP191.1E	Rotary air damper actuator, 6Nm, 2s	
QBM3020...	Air duct differential pressure sensors	

Room sensor and operating

Application can be configured from these functions:
- Room operating units QMX3 on KNX PL-Link
- Sensors for onboard IO's or KNX PL-Link
- Presence/brightness sensors for onboard IO's or KNX PL-Link

	Temperature sensor	Air quality Sensor	Humidity sensor	Presence detector
DI				2
AI	1	1	1	
HVAC Sensor (KNX PL-Link)	1	1	1	
Presence and brightness sensor (KNX PL-Link)				1–4*
Room unit (KNX PL-Link)	1	1	1	

* Must be the same device

	Window contact	Room operator unit
DI	1	
Room unit (KNX PL-Link)		2*

* Must be the same device

Central functions

Application can be configured from these functions:
- Central operation group including room operating mode and start optimization, setpoints and seasonal compensation
- Demand controlled hot water supply system, includes temperature setpoint
- Demand controlled chilled water supply system, includes temperature setpoint, shift to avoid condensation by collecting condensation monitors, free cooling calculation
- Demand controlled 2 pipe heating / cooling water supply system includes temperature setpoint, changeover, free cooling calculation
- Demand controlled air handling unit (supply and extract air) includes temperature setpoint, maximum humidity setpoint, pressure setpoint, maintain minimal central air volume, flow deviation calculation, summed air volume setpoints
- Variable air volume (VAV) emergency group includes shut down, extract, pressurization or purge
- Central weather station information includes outside temperature, outside brightness, outside solar radiation, outside wind speed, outside precipitation

	Central Weather Station Controller					Central Emergency Controller		
	Outside temperature	Relative outside humidity	Atmospheric pressure	Wind speed	Precipitation detector	Forced Emergency shut down air supply	Forced Smoke extraction (exhaust air)	Forced Smoke pressurization (supply air)
DI					1	1–2	1–2	1–2
AI	1	1	1	1				
Push button (KNX PL-Link)								
DXR2.. Type	DXR2..18..					DXR2..18..		

Room units

	 QMX3.. P35H	 QMX2.. P33	P43	 P36	 QMX3.. P34	 P74
Features						
Mode selection	■	■	■	■	■	■
Fan switch	■	■	■	■	■	■
Setpoint adjuster	■	■	■	■	■	■
Temperature sensor	■	■	■	■	■	■
Humidity sensor			■			■
Air quality sensor						■
Green Leaf	■			■	■	■
Mounting						
Flush mounted	■			■		
Direct on wall		■	■		■	■
Integration into DXR2...						
Data points	3	3	3	3	3	5
KNX PL-Link bus load (mA)	15	7.5	7.5	12.5	7.5	15

HVAC Sensor (KNX PL-Link)

	 AQR2570... and AQR2532NNW	AQR2570... and AQR2535NNW	 AQR2576... and AQR2530NNW	AQR2576... and AQR2532NNW	AQR2576... and AQR2535NNW	AQR2576... and AQR253NNWQ	 QMX3.P30	 QMX3.P40	 QMX3.P70
Features									
LED indication air quality						■			■
Temperature sensor	■	■		■	■	■	■	■	■
Humidity sensor		■			■	■		■	■
Air quality sensor			■	■	■	■			■
Mounting									
Flush mounted	■	■	■	■	■	■			
Direct on wall							■	■	■
Integration into DXR2...									
Data points	1	2	1	2	3	3	1	2	3
KNX PL-Link bus load (mA)	5	5	15	15	15	15	7.5	7.5	15

Physical Sensors with KNX connection

			
Type	**UP 258D31**	**UP 258D41**	**UP 258D51**	**UP 258D61**
Features				
Mounting[1)]	UP/AP	UP/AP	UP/AP	UP/AP
Degree of protection	IP54	IP20	IP20	IP20
Presence detector	■	■	■	■
Detection capability	PIR	PIR	PIR	Ultrasound/PIR
Detection area at mounting height 2.5 m (m)	320 m²	320 m²	320 m²	70 m²
Brightness sensor	■	■	■	■
Temperature sensor	■	■	■	■
Humidity sensor		■	■	
CO_2 sensor			■	
Infrared (IR) receiver	■	■	■	■
Data points	3	4	5	3
KNX PL-link bus load (mA)	12.5	12.5	30	20

[1)] AP surface mounted, UP flush mounted

Presence and brightness sensor (KNX PL-link)

		
Type	**UP 255D21**	**UP 258D12**
Features		
Presence detector	■	■
Detection area at mounting height 2.5 m (m)	4.5	4.5
Brightness sensor		■
Integration into DXR2..		
Data points	2	2
KNX PL-link bus load (mA)	10	10

Actuator for VAV (KNX PL-Link)

		
Type	**GDB181.1E/KN**	**GLB181.1E/KN**
Features		
Torque (Nm)	5	10
Air damper area (m²)	0.8	1.5
Operating range (Pa)	0...300	0...300
Operating voltage (V AC)	24	24
Integration into DXR2..		
Data points	2	2
KNX PL-link bus load (mA)	5	5

Room controller with KNX communication

RXB2..

The controllers are used for temperature control in individual rooms.

- For 2-pipe with changeover or 4-pipe fan coil systems
- For radiator and chilled ceiling (RXB24.1 only)
- Control of thermal valve actuators AC 24 V, PWM, valve actuators AC 24 V (3-position) as well as KNX bus actuators
- Potential-free relay contacts for fan speed control
- Connecting relay for electric heating (RXB22.1 und RXB39.1)
- KNX bus communication
- Connection to Desigo building automation and control system via PX KNX
- Commissioning with "Handy Tool" QAX34.3 or Synco ACS

Application description fan coil: CM110672
Application description RAD/CLC: CM110671

Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	Max. 12 VA
Control Algorithm	PI
Communication	Bus: KNX (S-mode and LTE mode) Room unit: PPS2
Service plug	RXT20.1
Digital inputs, number	2
Relay output, switching voltage	AC 250 V
Relay output, switching current	5 (4) A
Triac outputs	PWM 3-position
Triac output, switching voltage	AC 24 V
Triac output, switching current	0.5 A
Interface type	KNX-bus
Mounting	DIN rail
Mounting location	Ceiling voids with cover Fan coil Panel
Degree of protection	IP30
Dimensions (W x H x D)	113 x 167 x 62 mm

Range overview RXB2..

Product Title	Triac outputs, number	Relay outputs, number	Data sheet	Stock no.	Product no.
Room controller for 3-speed fan	4	3	N3873	BPZ:RXB21.1/FC-10	**RXB21.1/FC-10**
Room controller for 3-speed fan	4	3	N3873	BPZ:RXB21.1/FC-11	**RXB21.1/FC-11**
Room controller with 3-speed fan and electric heating coil	2	4	N3873	BPZ:RXB22.1/FC-12	**RXB22.1/FC-12**
Room controller for chilled ceilings and radiators	4	0	N3874	BPZ:RXB24.1/CC-02	**RXB24.1/CC-02**

The application determines the usable actuator (PWM/3-position) with the triac output.

RXB39.1/FC-13

Room controller for fan-coil applications with KNX communication

The RXB39.1 room controller is used for temperature control in individual rooms.

- For 2-pipe and 4-pipe fan coil systems with or without changeover
- PI control
- KNX bus communication
- Connection to Desigo building automation and control system via PX KNX
- DC 0...10 V control of valve and actuators, fan (ECM), and electric heater
- 2 Potential-free relay contacts to release fan and electric heating
- Commissioning with ETS Professional, "Handy Tool" QAX34.3 or Synco ACS
- Operating voltage AC 230 V
- Plug-in screw terminals

Data sheet	N3875
Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	12 VA
Control Algorithm	PI
Communication	Bus: KNX Room unit: PPS2
Service plug	ETS Professional, ACS, HandyTool
Analog inputs, number	2
Analog outputs, number	3
Analog output, signal	DC 0...10 V
Digital inputs, number	4
Relay outputs, number	1
Electric reheater relay	1
Relay output, switching voltage	AC 250 V
Relay output, switching current	5 (4) A
Dimension width (1 MW = 18 mm)	9.5 MW
Mounting	DIN rail For screw fixing
Mounting location	Ceiling voids with cover Fan coil Panel
Degree of protection	IP20
Dimensions (W x H x D)	152 x 120 x 62 mm

	Stock no.	Product no.
	S55373-C121	**RXB39.1/FC-13**

Accessories for RXB..

Product Title	Data sheet	Stock no.	Product no.
Power supply unit DC 29 V, 160 mA with additional unchoked output, N 125/02	A6V10416069	5WG1125-1AB02	**N 125/02**
Power supply unit DC 29 V, 320 mA with additional unchoked output, N 125/12	A6V10416069	5WG1125-1AB12	**N 125/12**
Power supply unit DC 29 V, 640 mA with additional unchoked output, N 125/22	A6V10416069	5WG1125-1AB22	**N 125/22**
Terminal cover for RXB2../ RXC2../ RXM2..	N3834	BPZ:RXZ20.1	**RXZ20.1**
Power amplifier for thermal actuators AC 24 V, PWM	N3591	BPZ:UA1T	**UA1T**
Terminal cover for RXB3../ RXC3../ RXM3..	N3840	BPZ:RXZ30.1	**RXZ30.1**

Temperature sensors for RXB..

Product Title	Data sheet	Stock no.	Product no.
Duct temperature sensor 400 mm, LG-Ni1000	N1761	BPZ:QAM2120.040	**QAM2120.040**
Room temperature sensor LG-Ni1000	N1721	BPZ:QAA24	**QAA24**
Room sensor KNX for temperature, white	N1602	S55624-H103	**QMX3.P30**

Temperature sensors for RXB..

Product Title	Data sheet	Stock no.	Product no.
Room temperature sensor LG-Ni1000 for mounting on recessed conduit boxes	N1722	BPZ:QAA64	**QAA64**
Front modules with passiv temperature measurement	N1408	BPZ:AQR2531..	**AQR2531..**
Cable temperature sensor PVC 2 m, LG-Ni1000	N1831	BPZ:QAP22	**QAP22**

Dewpoint sensor for RXB..

Product Title	Data sheet	Stock no.	Product no.
Condensation monitor	A6V10741072	BPZ:QXA21..	**QXA21..**

Damper actuators for RXB..

Product Title	Data sheet	Stock no.	Product no.
Rotary air damper actuators 5 Nm, without spring return	A6V10636149 / A6V10881141	BPZ:GDB..1E	**GDB..1E**
Linear air damper actuators 125 N, without spring return	N4664	BPZ:GDB..2E	**GDB..2E**
Rotary air damper actuators 10 Nm, without spring return	A6V10636202 / A6V10881141	BPZ:GLB..1E	**GLB..1E**
Linear air damper actuators 250 N, without spring return	N4664	BPZ:GLB..2E	**GLB..2E**
Mounting Bracket, BG		S55859-Z115	**ASK71.04**
Position Indicator, BG		S55859-Z116	**ASK71.05**
Mounting Bracket, BG, short		S55859-Z119	**ASK71.08**
Centering insert 2 x square 10 mm		S55859-Z123	**ASK71.21**
Rotary air damper actuator, AC/DC 24 V, 2-position/3-position, 10 Nm, 150 s	A6V10636202	S55499-D443	**GLB141.1H**

Valve actuators for RXB..

Product Title	Data sheet	Stock no.	Product no.
Electromotoric actuator, 200 N, 5.5 mm, AC 24 V, 1.5 m, 3P	N4891	BPZ:SSB81	**SSB81**
Electromotoric actuator, 160 N, 2.5 mm, 1.5 m, AC 24 V, 3P	N4864	BPZ:SSP81	**SSP81**

QAX3.. Room unit with PPS2 interface

Room units for acquiring the room temperature and operation of individual room control.

Voltage supply	PPS2
Power consumption	0.10 VA
Time constant	≤8 min
Measuring range, temperature	0...40 °C
Sensing element, temperature	NTC
Measurement accuracy	±0.25 K at 25 °C ±0.5 K at 5...30 °C
Setpoint readjustment range	±12 K
Mounting location	Indoors
Degree of protection	IP30

QAX30.1 Room unit with sensor and PPS2 interface

- Acquisition of room temperature

Data sheet	N1741
Dimensions (W x H x D)	90 x 100 x 32 mm

Stock no.	Product no.
BPZ:QAX30.1	**QAX30.1**

QAX31.1 Room unit with sensor, setpoint adjuster and PPS2 interface

- Acquisition of room temperature
- Setpoint adjuster for room temperature

Data sheet	N1741
Dimensions (W x H x D)	90 x 100 x 36 mm

Stock no.	Product no.
BPZ:QAX31.1	**QAX31.1**

QAX32.1 Room unit with sensor, setpoint and operating mode selector and PPS2 interface

- Acquisition of room temperature
- Setpoint adjuster for room temperature
- Rocker switch for mode selection (Off / Auto)

Data sheet	N1641
Dimensions (W x H x D)	90 x 100 x 36 mm

Stock no.	Product no.
BPZ:QAX32.1	**QAX32.1**

Room unit with sensor, setpoint and operating mode selector, fan speed selection, and PPS2 interface

QAX33.1

- Acquisition of room temperature
- Setpoint adjuster for room temperature
- Rocker switch for mode selection (Off/Auto) and for manual fan control with fan coil systems (up to 3 speeds)

Data sheet	N1642
Dimensions (W x H x D)	90 x 100 x 36 mm

Stock no.	Product no.
BPZ:QAX33.1	**QAX33.1**

Room unit with sensor, setpoint and operating mode selector, display and PPS2 interface

QAX34.3

- Acquisition of room temperature
- Rocker switch for adjustment of room temperature setpoint
- Rocker switch for mode selection (Off/Auto) and for manual fan control with fan coil systems (up to 3 speeds)
- LCD with display of room temperature and control mode
- Together with the RXB controllers for parameter setting

Data sheet	N1640
Dimensions (W x H x D)	96 x 119 x 24 mm

Stock no.	Product no.
BPZ:QAX34.3	**QAX34.3**

Universal setpoint adjuster with PPS2 interface

QAX39.1

- Setpoint adjuster for room temperature

Data sheet	N1646
Dimensions (W x H x D)	48 x 48 x 15 mm

Stock no.	Product no.
BPZ:QAX39.1	**QAX39.1**

QAX84.1/PPS2

Flush-mounted room unit complete with PPS2 interface and design frame

The set consists of:
- Operator unit,
- PPS2 bus coupling unit and
- Design frame DELTA line in titanium white.

Functionality:
- Acquisition of room temperature
- Switch for adjustment of room temperature setpoint
- Switch for mode selection (Off/Auto) and for manual fan control with fan coil systems (up to 3 speeds)
- LCD with display of room temperature and control mode

Data sheet	N1649
Voltage supply	PPS2
Measuring range, temperature	0...40 °C
Sensing element, temperature	NTC
Degree of protection	IP30
Dimensions (W x H x D)	80 x 80 x 30.5 mm
Weight (net)	0.13 kg

Stock no.	Product no.
BPZ:QAX84.1/PPS2	**QAX84.1/PPS2**

Central control unit for room controllers and room thermostats

RMB795B-1

- Central control unit with integrated control and supervisory functions for individual room control with RXB room controllers and room thermostats RDG/RDF
- Central collection of heating and cooling demands from any KNX room controllers
- Control of any HVAC primary controllers in dependence on the received and calculated heating/cooling demands
- Individual time programs for room groups
- Preselected operating modes and setpoints, minimum / maximum temperature supervision and supervision of RXB room controllers and room thermostats RDG/RDF
- Trend and fault reporting functions for the input variables temperature, relative / absolute humidity, pressure / differential pressure, volumetric air flow, indoor air quality, etc.
- Heating / cooling changeover function for operation with 2-pipe systems
- Flexible configuration
- Clear-text operation with separate operator unit (plug-in type or detached)
- Integrated KNX bus communication
- No commissioning tool required

The RMB795B-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 central control unit 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

A total of 3 extension modules can simultaneously be used with the central control unit.

Available operator units:
- Plug-in type operator unit RMZ790
- Detached operator unit RMZ791
- Bus operator unit RMZ792

Data sheet	N3122
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	12 VA
Communication	KNX (KNX TP1)
Analog outputs, number	2
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Digital outputs, number	4
Universal inputs, number	6
Universal input, signal	2 x LG-Ni1000 DC 0...10 V Potential-free digital status contact LG-Ni1000 Pt1000 T1 (PTC)
Relay outputs, number	4
Relay output, switching voltage	AC 19...250 V
Relay output, switching current	4 (3) A
Mounting	DIN rail
Degree of protection	IP20
Dimensions (W x H x D)	173 x 90 x 80 mm

Stock no.	Product no.
S55370-C162	**RMB795B-1**

DXR2.E12P..

Compact room automation station, BACnet/IP, 24 V, DIN housing, 1 DI, 2 UI, 2 AO, 6 triac, pressure sensor

Compact room automation stations for HVAC, lighting, and shading:

- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool

Data sheet	N9205
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	70 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	2
Digital inputs, number	1
Analog outputs, number	2
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Triac outputs, number	6
Triac output, switching voltage	AC 24 V
Triac output, switching current	250 mA
Mounting	DIN rail
Degree of protection	IP20
Dimensions (W x H x D)	180 x 60 x 105 mm

Range overview DXR2.E12P..

Product Title	Stock no.	Product no.
Compact room automation station, BACnet/IP, 24 V, DIN housing, 1 DI, 2 UI, 2 AO, 6 triac, pressure sensor, 30 data points	S55376-C108	**DXR2.E12P-102A**
Compact room automation station, BACnet/IP, 24 V, DIN housing, 1 DI, 2 UI, 2 AO, 6 triac, pressure sensor, 30 data points, bulk pack 18 pcs.	S55376-C163	**DXR2.E12P-102A/BP**

Compact room automation station, BACnet/IP, 24 V, DIN housing, 2 DI, 4 UI, 4 AO, 8 triac

DXR2.E18..

Compact room automation stations for HVAC, lighting, and shading:

- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool

Data sheet	N9205
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	78 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	4
Digital inputs, number	2
Analog outputs, number	4
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Triac outputs, number	8
Triac output, switching voltage	AC 24 V
Triac output, switching current	250 mA
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	180 x 105 x 60 mm

Range overview DXR2.E18..

Product Title	Stock no.	Product no.
Compact room automation station, BACnet/IP, 24 V, DIN housing, 2 DI, 4 UI, 4 AO, 8 triac, (Fancoil, Radiant ceilling, Radiator, 4 Lights & 2 Shades)	S55376-C107	**DXR2.E18-101A**
Compact room automation station, BACnet/IP, 24 V, DIN housing, 2 DI, 4 UI, 4 AO, 8 triac, bulk pack 18 pcs.	S55376-C162	**DXR2.E18-101A/BP**
Compact room automation station, BACnet/IP, 24 V, DIN housing, 2 DI, 4 UI, 4 AO, 8 triac, (Variable air volume, Fan-powered box, Radiant ceilling, Radiator, 4 Lights & 2 Shades)	S55376-C128	**DXR2.E18-102A**
Compact room automation station, BACnet/IP, 24 V, DIN housing, 2 DI, 4 UI, 4 AO, 8 triac, bulk pack 18 pcs.	S55376-C167	**DXR2.E18-102A/BP**

DXR2.E09..

Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 3 AO

Compact room automation stations for HVAC, lighting, and shading:
- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool

Data sheet	N9204
Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	24 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	2
Digital inputs, number	1
Analog outputs, number	3
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Relay outputs, number	3
Relay output, switching voltage	AC 250 V
Relay output, switching current	4 (3) A
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	112 x 165 x 49 mm

Range overview DXR2.E09..

Product Title	Stock no.	Product no.
Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 3 AO	S55376-C110	**DXR2.E09-101A**
Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 3 AO, bulk pack 18 pcs.	S55376-C165	**DXR2.E09-101A/BP**

Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 1 relay, 1 AO, 4 triac

DXR2.E09T..

Compact room automation stations for HVAC, lighting, and shading:
- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool

Data sheet	N9204
Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	24 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	2
Digital inputs, number	1
Analog outputs, number	1
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Relay outputs, number	1
Relay output, switching voltage	AC 250 V
Relay output, switching current	4 (3) A
Triac outputs, number	4
Triac output, switching voltage	AC 24 V
Triac output, switching current	150 mA
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	112 x 165 x 49 mm

Range overview DXR2.E09T..

Product Title	Stock no.	Product no.
Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 1 relay, 1 AO, 4 triac	S55376-C111	**DXR2.E09T-101A**
Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 1 relay, 1 AO, 4 triac, bulk pack 18 pcs.	S55376-C166	**DXR2.E09T-101A/BP**

DXR2.E10..

Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 4 triac

Compact room automation stations for HVAC, lighting, and shading:
- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool

Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	24 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	2
Digital inputs, number	1
Relay outputs, number	3
Relay output, switching voltage	AC 250 V
Relay output, switching current	4 (3) A
Triac outputs, number	4
Triac output, switching voltage	AC 24 V
Triac output, switching current	150 mA
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	112 x 165 x 49 mm

Range overview DXR2.E10..

Product Title	Stock no.	Product no.
Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 4 triac, bulk pack 18 pcs.	S55376-C164	**DXR2.E10-101A/BP**
Compact room automation station, BACnet/IP, 230 V, flat housing, 1 DI, 2 UI, 3 relay, 4 triac	S55376-C109	**DXR2.E10-101A**

Compact room automation stations, BACnet/IP, 24 V

DXR2.E10PL..

Compact room automation stations for HVAC, lighting, and shading:
- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool

Data sheet	A6V11259958
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	Max. 66 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode
Universal inputs, number	3
Triac outputs, number	4
Triac output, switching voltage	AC 24 V
Triac output, switching current	150 mA
Degree of protection	IP20
Dimensions (W x H x D)	201 x 137 x 82 mm

Range overview DXR2.E10PL..

Product Title	Stock no.	Product no.
Compact room automation station and actuator combination, BACnet/IP, 24 V, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 30 data points	S55376-C145	**DXR2.E10PL-102B**
Compact room automation station, BACnet/IP, 24 V, DIN housing, 1 DI, 2 UI, 1 AO, 4 triac, pressure sensor, 60 data points	S55376-C146	**DXR2.E10PLX-102B**

Accessories for Desigo DXR2..

Product Title	Data sheet	Stock no.	Product no.
Terminal cover for DXR.., 110 mm, 2 pieces		S55376-C119	**DXA.H110**
Terminal cover for DXR.., 180 mm, 2 pieces		S55376-C120	**DXA.H180**

DXR2.E17C-103A

Compact Room Automation Station (30DP)

Compact room automation stations for HVAC, lighting, and shading:
- BTL Listed and a BACnet Advanced Application Controller (B-AAC) device
- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool
- Dedicated SCOM communication for fast and high resolution sensor input

Applications: Pressurized room, fume hood control, variable and constant volume flow, chilled beam, radiant ceiling, radiator, 4 lights & 2 shades

Data sheet	N9205
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	66 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode SCOM
Universal inputs, number	4 UI, 2 resistive
Digital inputs, number	3
Analog outputs, number	4
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Triac outputs, number	4
Triac output, switching voltage	24 V
Triac output, switching current	0.5 A
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	180 x 105 x 60 mm

Stock no.	Product no.
S55376-C134	**DXR2.E17C-103A**

Compact Room Automation Station (60DP)

DXR2.E17CX-103A

Compact room automation stations for HVAC, lighting, and shading:
- BTL Listed and a BACnet Advanced Application Controller (B-AAC) device
- BACnet/IP communications
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- KNX S-Mode device integration
- 2-port Ethernet switch
- USB interface for Tool
- Dedicated SCOM communication for fast and high resolution sensor input

Applications: Variable air volume, Fan-powered box, Radiant ceilling, Radiator, 4 Lights & 2 Shades

Data sheet	N9205
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	66 VA
Communication	BACnet/IP KNX PL-Link KNX S-Mode SCOM
Universal inputs, number	4 UI, 2 resistive
Digital inputs, number	3
Analog outputs, number	4
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Triac outputs, number	4
Triac output, switching voltage	24 V
Triac output, switching current	0.5 A
Mounting	DIN rail Wall mounting
Degree of protection	IP20
Dimensions (W x H x D)	180 x 105 x 60 mm

	Stock no.	Product no.
	S55376-C150	**DXR2.E17CX-103A**

Accessories room pressurization

Product Title	Data sheet	Stock no.	Product no.
Rotary air damper actuator, AC/DC 24 V, DC 0(2)...10 V/ 0(4)...20 mA, 6 Nm, 2 s	N4608	BPZ:GAP191.1E	**GAP191.1E**
Rotary air damper actuators 6 Nm, without electronic fail-save function	A6V11991159	S55499-D639	**GAP191.1E/IHT**
Rotary air damper actuator, AC/DC 24 V, DC 0(2)...10 V / 0(4)...20 mA, 6 Nm, 2 s, with electronic fail-save function	N4609	BPZ:GNP191.1E	**GNP191.1E**
Air duct differential pressure sensor, 0...100 Pa	N1916	S55720-S234	**QBM3020-1**
Air duct differential pressure sensor, 0...300 Pa for VAV	N1925	S55720-S118	**QBM3460-3**
Duct sensor for air velocity	N1932	BPZ:QVM62.1	**QVM62.1**
Communicative Air Flow Pressure Sensor (250 Pa / 1"WC)		S55376-C139	**DXA.S04P1**
Air duct differential pressure sensor, -50...50 Pa	N1916	S55720-S233	**QBM3020-1U**
Communicative Air Flow Pressure Sensor IP54 (250 Pa / 1"WC)		S55376-C140	**DXA.S04P1-B**
Air duct differential pressure sensor, 0...300 Pa	N1916	S55720-S235	**QBM3020-3**
Room Condition Monitor		S55624-H130	**RPM.00-SD**
Room Condition Monitor with Pressure Sensor (+-12 Pa / +-0.05"WC)		S55624-H131	**RPM.12-SD**
Room Condition Monitor with Pressure Sensor (+-25 Pa / +-0.1"WC)		S55624-H132	**RPM.25-SD**
Room Condition Monitor with Pressure Sensor (+-62 Pa / +-0.25"WC)		S55624-H133	**RPM.62-SD**
Room Condition Monitor with Pressure Sensor (+-125 Pa / +-0.5"WC)		S55624-H134	**RPM.125-SD**
Room Condition Monitor with Pressure Sensor (+-250 Pa / +-1.0"WC)		S55624-H135	**RPM.250-SD**

Accessories fume hood control

Product Title	Data sheet	Stock no.	Product no.
Control Module Box	A6V11438329	5WG1118-4AB01	**AP 118/01**
Rotary air damper actuator, AC/DC 24 V, DC 0(2)...10 V/ 0(4)...20 mA, 6 Nm, 2 s	N4608	BPZ:GAP191.1E	**GAP191.1E**
Fume Hood Operator Display (Thin and Flush Mount)	A6V10959882	S55624-H112	**QMX3.P88-1WSC**
Flow sensor		S55720-S397	**QVE3001**
Fume Hood Operator Display (Wide)		S55624-H111	**QMX3.P87-1WSC**
Communicative Air Flow Pressure Sensor (250 Pa / 1"WC)		S55376-C139	**DXA.S04P1**
Communicative Air Flow Pressure Sensor IP54 (250 Pa / 1"WC)		S55376-C140	**DXA.S04P1-B**
Cable Sash Sensor, 1270 mm	A6V11178716	S55376-C158	**DXA.B130**
Cable Sash Sensor, 2032 mm	A6V11178716	S55376-C159	**DXA.B200**
Switching actuator 1 x AC 230 V, 16 AX, C load	A6V10416159	5WG1512-4AB23	**RL 512/23**

Room operator unit for KNX PL-Link, room temperature sensor — QMX2.P33

Functionality:
- Room temperature sensor
- LCD display of room temperature, operating modes, etc.
- Operation with 8 push buttons
- Interface KNX PL-Link (for TRA, with plug and play functionality)
- Powered over KNX PL-Link

Data sheet	A6V10733768
Operating voltage	KNX PL-Link DC 21...30 V
Power consumption	Max. 7...10 mA
Measuring range, temperature	0...50 °C
Communication	KNX PL-Link
Mounting	Wall mounting
Degree of protection	Housing Protection: IP30 Protection standard as per EN 60529: IP33 for surface part
Dimensions (W x H x D)	89 x 133 x 21 mm
Weight (net)	0.146 kg

Stock no.	Product no.
S55624-H118	**QMX2.P33**

Room operator unit for KNX PL-Link, room temperature sensor and humidity sensor — QMX2.P43

Functionality:
- Room temperature sensor
- Humidity sensor
- LCD display of room temperature, operating modes, etc.
- Operation with 8 push buttons
- Interface KNX PL-Link (for TRA, with plug and play functionality)
- Powered over KNX PL-Link

Data sheet	A6V10733768
Operating voltage	KNX PL-Link DC 21...30 V
Power consumption	Max. 7...10 mA
Measuring range, temperature	0...50 °C
Communication	KNX PL-Link
Mounting	Wall mounting
Degree of protection	Housing Protection: IP30 Protection standard as per EN 60529: IP33 for surface part
Dimensions (W x H x D)	89 x 133 x 21 mm
Weight (net)	0.146 kg

Stock no.	Product no.
S55624-H117	**QMX2.P43**

QMX3.P..H..

Room operator unit KNX PL-Link with temperature sensor, Dot matrix backlit display, touchscreen

Functions:
* Temperature sensor
* Dot matrix backlit display and touch screen
* PM2.5 and CO2 display

Data sheet	A6V11521633
Operating voltage	DC 21...30 V
Voltage supply	KNX PL-Link
Power consumption	Max. 15 mA at DC 24 V
Operating range	DC 21...30 V
Measuring range	0...50 °C
Degree of protection	IP30

QMX3.P35H

Room operator unit KNX PL-Link with temperature sensor, Dot matrix backlit display, touchscreen, white

Functions:
- Temperature sensor
- Dot matrix backlit display and touch screen

Data sheet	A6V11521633
Color	White
Dimensions (W x H x D)	86.2 x 88.2 x 17.2 mm

Stock no.	Product no.
S55624-H137	**QMX3.P35H**

QMX3.P35H-BSC

Room operator unit KNX PL-Link with temperature sensor, Dot matrix backlit display, touchscreen, black

Functions:
* Temperature sensor
* Dot matrix backlit display and touch screen
* PM2.5 and CO2 display

Data sheet	A6V11521633
Color	Black
Dimensions (W x H x D)	86.2 x 88.2 x 17.2 mm

Stock no.	Product no.
S55624-H139	**QMX3.P35H-BSC**

Room operator unit KNX PL-Link with temperature sensor, Dot matrix backlit display, touchscreen, Lighting/Blinds, white — QMX3.P38H

Functions:
- Temperature sensor
- Dot matrix backlit display and touch screen
- PM2.5 and CO2 display
- Lighting/Blinds Control

Data sheet	A6V11521633
Color	White
Dimensions (W x H x D)	86.2 x 88.2 x 17.2 mm

Stock no.	Product no.
S55624-H138	**QMX3.P38H**

Room operator unit KNX PL-Link with temperature sensor, Dot matrix backlit display, touchscreen, Lighting/Blinds, black — QMX3.P38H-BSC

Functions:
* Temperature sensor
* Dot matrix backlit display and touch screen
* PM2.5 and CO2 display
* Lighting/Blinds Control

Data sheet	A6V11521633
Color	Black
Dimensions (W x H x D)	86.2 x 88.2 x 17.2 mm

Stock no.	Product no.
S55624-H140	**QMX3.P38H-BSC**

QMX3.P36..

Room sensor and unit for KNX PL-Link, freely configurable, flush-mounted

The flush-mounted room unit QMX3.. consists of:
– Operator unit
– Bezel, titanium white
– Base plate and KNX plug.

Functionality:
- Freely configurable user interface (keys and visual items) as part of Total Room Automation
- RoomOptiControl energy efficiency function
- Room temperature measurement
- Display of room temperature, control mode, scenes etc. (dot matrix LCD)
- Backlit display, white or blue selection
- KNX PL-Link interface to the room automation station with plug & play functionality
- Can be combined with different standard and design bezels

Data sheet	N1601
Voltage supply	KNX bus
Measuring range, temperature	0…50 °C
Sensing element, temperature	NTC
Communication	KNX PL-Link
Dimensions (W x H x D)	55 x 55 x 38 mm

Range overview QMX3..

Product Title	Stock no.	Product no.
Room unit for KNX PL-Link, freely configurable, flush-mounted with square bezel	S55624-H100	**QMX3.P36F**
Room unit for KNX PL-Link, freely configurable, flush-mounted with landscape bezel (3 modules landscape)	S55624-H101	**QMX3.P36G**

QMX3..

Wall-mounted room sensors and operator units for KNX

The wall-mounted room unit QMX3.. consists of:
– Base plate
– Sensor or room operator unit

The following functions are (depending on type):
- Temperature sensor or multisensor (T, r.h., CO2)
- Backlit display or LED display
- Touchkeys
- Switching and control of lighting, blinds, scenes

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

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

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

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

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

QMX3.P02-1BSC

Functions:
- Temperature sensor
- Configurable touchkeys with LED display
- Switching and control of lighting, blinds, scenes
- Window for labels

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

Stock no.	Product no.
S55624-H128	**QMX3.P02-1BSC**

Room sensor KNX for temperature, white

QMX3.P30

Functions:
- Temperature sensor

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

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

New Product

QMX3.P30-1BSC

Room sensor KNX for temperature, black

Functions:
- Temperature sensor

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

Stock no.	Product no.
S55624-H123	**QMX3.P30-1BSC**

QMX3.P34

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

Functions:
- Temperature sensor
- Segmented backlit display and touchkeys

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

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

QMX3.P34-1BSC

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

Functions:
- Temperature sensor
- Segmented backlit display and touchkeys

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

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

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

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

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

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

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

Room sensor KNX for temperature and humidity, white

QMX3.P40

Functions:
- Multisensor for temperature and humidity

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

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

QMX3.P40-1BSC

Room sensor KNX for temperature and humidity, black

Functions:
- Multisensor for temperature and humidity

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

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

QMX3.P44

Room operator unit KNX with sensors for temperature, humidity, segmented backlit display, touchkeys, white

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

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

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

QMX3.P44-1BSC

Room operator unit KNX with sensors for temperature, humidity, segmented backlit display, touchkeys, black

Functions:
- Multisensor for temperature and humidity
- Segmented backlit display and touchkeys

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

Stock no.	Product no.
S55624-H144	**QMX3.P44-1BSC**

Room sensor KNX for temperature, humidity, CO2, white — QMX3.P70

Functions:
- Multisensor for temperature, humidity and CO2
- Air quality indicator with LED

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

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

Room sensor KNX for temperature, humidity, CO2, black — QMX3.P70-1BSC

Functions:
- multisensor for temperature, humidity and CO2
- Air quality indicator with LED

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

Stock no.	Product no.
S55624-H125	QMX3.P70-1BSC

Room operator unit KNX with sensors for temperature, humidity, CO2, segmented backlit display, touchkeys, white — QMX3.P74

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

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

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

New Product

QMX3.P74-1BSC

Room operator unit KNX with sensors for temperature, humidity, CO2, segmented backlit display, touchkeys, black

Functions:
- Multisensor for temperature, humidity and CO2
- Segmented backlit display and touchkeys

Data sheet	N1602
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm

Stock no.	Product no.
S55624-H127	**QMX3.P74-1BSC**

QMX3.P44

Room operator unit KNX with sensors for temperature, humidity, segmented backlit display, touchkeys, white

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

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
Color	White
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.21 kg

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

Room operator unit KNX with sensors for temperature, humidity, segmented backlit display, touchkeys, black

QMX3.P44-1BSC

Functions:
- Multisensor for temperature and humidity
- Segmented backlit display and touchkeys

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
Color	Black
Degree of protection	IP30
Dimensions (W x H x D)	88.4 x 133.4 x 18 mm
Weight (net)	0.21 kg

Stock no.	Product no.
S55624-H144	**QMX3.P44-1BSC**

Front modules for base module

AQR253..

- Front module with sensors

Data sheet	N1411
Color	Titanium white
Degree of protection	IP30
Warranty	5 Years

Range overview AQR253..

Measuring range, temperature [°C]	Signal output temperature	Measurement range humidity [% r.h.]	Display	Dimensions (WxHxD) [mm]	Stock no.	Product no.
0...50	Active LG-Ni1000	0...100		55 x 55 x 12	S55720-S138	**AQR2534ANW**
				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**

The matching design frame must be ordered separately.

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 LTE-Mode (Synco)

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	5 Years

Range overview AQR2570..

Mechanical design	Data sheet	Stock no.	Product no.
EU (CEE/VDE)	N1411	S55720-S203	**AQR2570NF**
IT (3 Modular)	N1411	S55720-S205	**AQR2570NG**
UK (British Standard)	N1411	S55720-S204	**AQR2570NH**
US (UL)	N1411	S55720-S206	**AQR2570NJ**

AQR2576..

Base modules with KNX for CO_2 measurement

- Base module with maintenance and recalibration-free CO_2 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 LTE-Mode (Synco)

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	5 Years

Range overview AQR2576..

Mechanical design	Dimensions (WxHxD) [mm]	Stock no.	Product no.
EU (CEE/VDE)	71 x 71 x 45	S55720-S207	**AQR2576NF**
IT (3 Modular)	71 x 71 x 45	S55720-S209	**AQR2576NG**
UK (British Standard)	71 x 71 x 45	S55720-S208	**AQR2576NH**
US (UL)	64 x 110 x 45	S55720-S210	**AQR2576NJ**

Presence Detector WIDE — UP 258D..1

- 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
- Color white (similar to RAL 9016)

Presence Detector WIDE with temperature measurement — UP 258D31

- 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
- Color white (similar to RAL 9016)

Data sheet	A6V11895382
Dimensions (W x H x D)	120 x 41 x 120 mm

Stock no.	Product no.
5WG1258-2DB31	**UP 258D31**

Presence Detector WIDE pro with temperature and relative humidity measurement — UP 258D41

- 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
- Color white (similar to RAL 9016)

Data sheet	A6V11895382
Dimensions (W x H x D)	120 x 41 x 120 mm

Stock no.	Product no.
5WG1258-2DB41	**UP 258D41**

UP 258D51

Presence Detector WIDE multi with temperature, humidity and CO2 measurement

- 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
- Color white (similar to RAL 9016)

Data sheet	A6V11895382
Dimensions (W x H x D)	120 x 41 x 120 mm

Stock no.	Product no.
5WG1258-2DB51	**UP 258D51**

UP 258D61

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)

Data sheet	A6V11895378
Dimensions (W x H x D)	120 x 41 x 120 mm

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

Presence Detector with brightness sensor

UP 258D12

- 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

- Monitoring motion range horizontal 360°, vertical approx. 105°
- Optional blinding of parts of the detection area
- UP mounting with fixing claws in suspended ceiling
- Power supply via bus line
- Integrated bus coupling unit, bus connection via bus terminal

Data sheet	A6V10489482
Dimensions (W x H x D)	88 x 63 x 88 mm
Dimension (Ø x H)	88 x 63 mm

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

Brightness Sensor with constant light level controller

UP 255D21

- 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

Data sheet	A6V10489482
Dimensions (W x H x D)	88 x 63 x 88 mm
Dimension (Ø x H)	88 x 63 mm

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

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

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	5 Years

Range overview G..B181.1E/KN

Torque [Nm]	Operating voltage [V]	Air damper area [m²]	Power consumption	Stock no.	Product no.
5	AC 24	0.8	3 VA 2.5 W	S55499-D134	**GDB181.1E/KN**
5	AC 24	0.8	3 VA 2.5 W	S55499-D505	**GDB181.1EMKN**
10	AC 24	1.5	3 VA 2.5 W	S55499-D135	**GLB181.1E/KN**

GDB181.EMKN packaging unit 18 pieces.
Basic Documentation No.: P3547

Electromotoric rotary actuator KNX for control ball valves up to DN25 — GDB111.9E/KN

Electromotoric rotary actuator
- for KNX S-Mode or KNX PL-Link communication
- for 2-/3-port control ball valves up to DN25
- for 6-port control ball valves up to DN25
- without spring-return
- pre-wired with two 0.9 m connection cables

Data sheet	A6V10725318
Torque	5 Nm
Angular rotation	90°
Power consumption	3 VA 2.5 W
Positioning time	150 s
Cable length	0.9 m
Communication	KNX S-Mode or KNX PL-Link
Positioning signal	KNX S-Mode or KNX PL-Link
Spring return function	No
Degree of protection	IP54
Medium temperature	5…90 °C
Ambient humidity, operation	95 % r.h.
Dimensions (W x H x D)	88 x 112 x 143 mm
Mounting position	Horizontal or vertical
Operating voltage	AC 24 V
Position feedback	KNX S-Mode or KNX PL-Link
Auxiliary switch	0
Warranty	5 Years

Stock no.	Product no.
S55499-D203	**GDB111.9E/KN**

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