Physical sensors

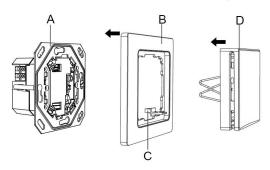


Overview and selection tools		310
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	Motion/presence	320
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without KNX connection	Temperature	337
	Humidity	341
	Air quality	344
	Sunlight intensity	350

Overview and selection tools

Room sensors for flush mounting

The Symaro sensor front module is equipped with spring clips. The spring clips ensure easy and error-free mounting of the front module to the basic module. In addition, an anti-theft device prevent unauthorized removal of the front module.



A: Basic module AQR257../AQR254...

B: DELTA frame see chapter Display and operation units - Pushbutton accessories

C: Anti-theft device

D: Front module AQR253..

Overview of module combinations – Room sensors									
Communicati	ng s	ensors	Mounting 1)	М	easuring Variab	es	Display	Input	
Basic module	+	Front module		CO2	Relative humidity	Temperature	CO2-indicator	passive Temperature NTC 10k	Two potential-free contacts
AQR2570Nx	+	AQR2532NNW	UP						
AQR2570Nx	+	AQR2535NNW	UP						•
AQR2576Nx	+	AQR2530NNW	UP						
AQR2576Nx	+	AQR2532NNW	UP	•					
AQR2576Nx	+	AQR2535NNW	UP						•
AQR2576Nx	+	AQR2535NNWQ	UP			■ (radial)	•		•
QMX6.P30			AP			•			
QMX6.P40			AP						
QMX6.P70			AP			-			

Replace x with:

- F for VDE/CEE (70 x 70 mm)
- H for British Standard (83 x 83 mm)
 G for Italian Standard 3 modular (110 x 64 mm)
 J for UL Standard 2" x 4" (64 x 110 mm)

 1) AP surface mounted, UP flush mounted

UP 258E22	UP 258D12	UP 255D21
UP/AP	UP 258D12	P 255D21
UP/AP	UP 258D12	P 255D21
UP/AP	<u></u> 5	
		5
	UP/AP	UP
IP20	IP20	IP20
= -		
88	88	88
		632)
0.5	05 :	03 %
KNIA	KNA	KNX
KINX	KINX	KINX
_	_	_
_		-
		-
PIR	PIR	
•	=	
-	-	
	-	
360°	360°	
105°	105°	
73)	7 ³	
	-	
201000	201000	20100
=	-	•
	_	_
	-	_
		-
	_	
	■,	
	FIR	63 ²⁾ 63 ²⁾ KNX KNX PIR PIR 360° 360° 105° 73) 73 201000 201000

³⁾ AP surface mounted, UP flush mounted
²⁾ For flush mounting, mounting height approx. 31 mm, for surface mounting with AP 258E surface-mounting enclosure, approx. 73 mm.
³⁾ For complete technical data visit www.siemens.de/gamma-td
⁴⁾ Only available with appropriate module combination or variant.
⁵⁾ Depending on the model.

Physical Sensors with KNX co	onnection		
Туре	AP 254/02	AQR257	QMX6. P30/P40/P70
Enclosure data			
Mounting ¹⁾	AP	UP	AP
Degree of protection	IP54	IP20	IP30
Dimensions			
• Width/Ø [mm] (1 MW = 18 mm)	72	71	88
• Height [mm]	110	71	120.8
• Depth [mm]	54	39	18
Power supply			
Bus-powered electronics	KNX	KNX	KNX
Bus connection			
Integrated bus coupling units	T	•	
Bus connection via bus terminal		-	•
Transmission of sensor values via bus		-	•
Brightness			
Measuring range [Lux]	1100000		
For measuring outdoor brightness			
HVAC sensors			
Temperature measuring range [°C]	-25+55	0504)	050
Temperature sensor inputs		NTC 10k ⁴⁾	
Temperature max. cable length, unshielded, twisted [m]		104)	
Humidity [% r.F.]		01004)	01004)
CO2 [ppm]		050004)	400100004)
Controller			
Temperature controller		•	-
Relative humidity controller			
Air quality controller			•

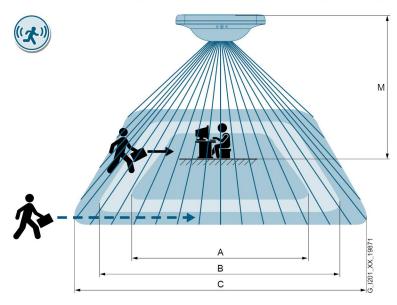
¹⁾ AP surface mounted, UP flush mounted
2) For flush mounting, mounting height approx. 31 mm, for surface mounting with AP 258E surface-mounting enclosure, approx. 73 mm.
3) For complete technical data visit www.siemens.de/gamma-td
4) Only available with appropriate module combination or variant.

Active sensor		ors without K					Measuring V	ariables		Display	
Basic module	+	Front module	Mounting⁴)	PM2.5/10	CO ₂	voc	Relative humidity	Active temp.	Passive temp.	CO 2	Relay contact
AQR2540Nx	+	AQR2532NNW	UP				,				
AQR2540Nx	+	AQR2535NNW	UP								
AQR2540Nx	+	AQR2533NNW	UP				_	-	LG-Ni1000		
AQR2546Nx	+	AQR2530NNW	UP		-		_	-	LG-MITOOU		
AQR2546Nx	+	AQR2530NNW	UP								
			UP					2)			
AQR2546Nx	+	AQR2535NNW	UP		-			■ -/ ■ 2)			
AQR2546Nx	+	AQR2535NNWQ					-		I C NI:1000	-	
AQR2546Nx	+	AQR2534ANW	UP		-	_	•	1 2)	LG-Ni1000		
AQR2547Nx	+	AQR2530NNW	UP			_		_			
AQR2547Nx	+	AQR2532NNW	UP			_	_	= 2)			
AQR2547Nx	+	AQR2535NNW	UP				•	2)			
AQR2547Nx	+	AQR2534ANW	UP			-	-	= 2)	LG-Ni1000		
AQR2548Nx	+	AQR2530NNW	UP			1)					
AQR2548Nx	+	AQR2532NNW	UP		•	■ 1)		•			
AQR2548Nx	+	AQR2535NNW	UP			1)		= 2)			
AQR2548Nx	+	AQR2535NNWQ	UP		-	■ 1)	•	2)		-	
AQR2548Nx	+	AQR2534ANW	UP			■ 1)	•	2)	LG-Ni1000		
AQR2500Nx	+	AQR2531ANW	UP						LG-Ni1000		
Room sensor	- Tei	mperature									
QAA2012			AP								
QAA2061			AP					■3)			
QAA2061D			AP					■3)			
QAA2071			AP					■3)			
Contact sense	or								1		
QAD2012			AP								
External sens	or -	Temperature	7							l	
QAC2012		· · · · · · · · · · · · · · · · · · ·	AP								
QAC3161			AP					■3)			
Room sensor	- Hu	ımidity	/ / //								
QFA2000	110	iiiiaicy	AP								
QFA2060			AP				_	■3)			
QFA2060D			AP					■3)		-	
Room sensor	- Air	r quality	/ / / /				<u> </u>			_	
OPA2000	711	quanty	AP								
QPA2002			AP		-						
QPA2060			AP					■3)			
QPA2060 QPA2062			AP					3)			
								■3)			
QPA2062D			AP		-		_	= 3,		-	
QPA1000			AP		_						
QPA1004			AP		-			-2)			
QPA1064			AP					■3)			
Room sensor	- Fir	ie dust		_							
QSA2700			AP	-						- 44	
QSA2700D			AP	CO and VOC							

³⁾ Here, the in-door air quality is calculated from the CO₂ and VOC measuring variables. VOC is not available as direct measuring variable ²⁾ The measuring variable is solely available as switch output ³⁾ Measuring range adjustable ⁴⁾ AP surface mounted, UP flush mounted

Detection area

Detection area UP 258D31, UP 258D33, UP 258D41, UP 258D43, UP 258D51, UP 258D53



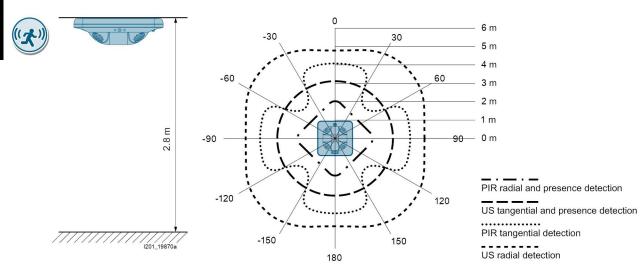
The detection area has the following zones:

- A) Seated person
- B) Walking person: step radial in detection of the presence detector on the floor
 Walking person: step tangential in relations to the
- presence detector on the floor
- M) Istallation height from floor

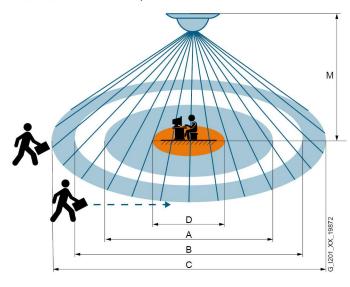
The table shows the maximum possible diameter of the individual zones in meters at different installation heights (M) and with adjustable range.

		A				В			С		
		1	4	7	1	4	7	1	4	7	
	25 m	3.6 m x 3.6 m	5.2 m x 5.2 m	7.8 m x 7.8 m	3.6 m x 3.6 m	5.2 m x 5.2 m	7.8 m x 7.8 m	4 m x 4 m	6 m x 6 m	18 m x 18 m	
М	3 m	4 m x 4 m	5.8 m x 5.8 m	8 m x 8 m	4 m x 4 m	5.8 m x 5.8 m	5 m x 5 m	4 m x 4 m	7 m x 7 m	22 m x 22 m	
IVI	5 m				6 m x 6 m	7 m x 7 m	8.1 m x 8.1 m	8 m x 8 m	17 m x 17 m	27 m x 27 m	
	10 m				7.4 m x 7.4 m	7.5 m x 7.5 m	8 m x 8 m	13 m x 13 m	27 m x 27 m	42 m x 42 m	

Detection area UP 258D61



Detection area UP 258E22, UP 258D12



The maximum detection ranges to be achieved are as follows divided:

- A) Sitting person
- B) Walking person straight
- C) Walking person crosswise (tangential)
- D) Brightness measurement
- M) Mounting height from floor level

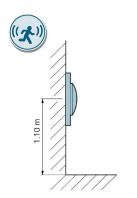
Maximum achievable detection ranges for UP 258E22 / UP 258D12 (in meters)

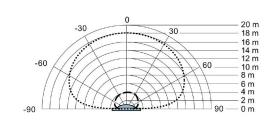
М	А	В	С	D
5.0	_	Ø 8.5	Ø 14	Ø 3.0
4.0		Ø 7.5	Ø 12	Ø 2.3
3.5	Ø 5.5	Ø 6.5	Ø 10	Ø 2.0
3.0	Ø 5.0	Ø 6.0	Ø 8	Ø 1.6
2.5	Ø 4.5	Ø 5.0	Ø 7	Ø 1.2

Detection area UP 251/11, UP 251/12

The motion sensors UP 251/11 and UP 251/12 offers a detection option through PIR technology.

The following diagram shows the maximum diameter of the individual zones in meters at an installation height of 1.1 m and has been developed for use in hallways and stairways.





US tangential and presence detection

PIR tangential detection

with KNX connection Multisensors

UP 258D..



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	Dimensions (WxHxD) [mm]	Stock no.	Product no.
KNX Presence Detector WIDE with temperature measurement		120 x 41 x 120	5WG1258-2DB31	UP 258D31
KNX Presence Detector WIDE black with temperature measurement	Black	120 x 120 x 41	5WG1258-2DB33	UP 258D33
KNX Presence Detector WIDE pro with temperature and relative humidity measurement		120 x 120 x 41	5WG1258-2DB41	UP 258D41
KNX Presence detector WIDE pro with temperature and relative humidity measurement	Black	120 x 41 x 120	5WG1258-2DB43	UP 258D43
KNX Presence Detector WIDE multi with temperature, humidity and CO2 measurement		120 x 120 x 41	5WG1258-2DB51	UP 258D51
KNX Presence Detector WIDE multi with temperature, humidity and CO2 measurement	Black	120 x 41 x 120	5WG1258-2DB53	UP 258D53

New Product 316

UP 258D61

11

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

Dimensions (W x H x D) 120 x 41 x 120 mm Warranty 24 Months

 Stock no.
 Product no.

 5WG1258-2DB61
 UP 258D61

Accessories for multisensors

AP 258E11 Surface Mounting Box Type B (white)

• Mounting presence detector UP 258D... as a surface-mounted device

• Color white (similar to RAL 9016)

Dimensions (W x H x D) 109 x 109 x 30 mm Warranty 24 Months





 Stock no.
 Product no.

 5WG1258-7EB11
 AP 258E11

31238-7EBTT AF 238ET

317

with KNX connection Multisensors

AP 258E13



Surface Mounting Box Type B (black)

- Mounting presence detector UP 258D... as a surface-mounted device
- Color black (similar to RAL 9005)

Dimensions (W x H x D) 109 x 109 x 30 mm Warranty 24 Months

Stock no.

Product no.

5WG1258-7EB13

AP 258E13

S 255/11



IR remote control

- 6 pushbutton pairs for the remote control of lighting, shutter/blinds and scenes
- Parameterization via ETS in the presence detectors UP 258E22, UP 258D12 and UP 258D.. and in the brightness sensor UP 255D21
- Range: up to 10 m
- Power supply: CR2025 lithium button cell
- Degree of protection (acc. to EN 60529): IP40

 Data sheet
 A6V11786011

 Dimensions (W x H x D)
 40 x 87 x 6 mm

 Warranty
 24 Months



Stock no.

Product no.

5WG1255-7AB11

S 255/11

S 258/12



Mounting plate (white)

- Mounting presence detector UP 258D... with 4x4 boxes
- Color white (similar to RAL 9016)

Warranty 24 Months



Stock no.

Product no.

5WG1258-8AB12

S 258/12

318 New Product

11

Mounting plate (black) S 258/13

• Mounting presence detector UP 258D... with 4x4 boxes

• Color black (similar to RAL 9005)

Dimensions (W x H x D) 109 x 109 x 11 mm

Warranty 24 Months



Multisensors

Stock no. Product no.

5WG1258-8AB13

S 258/13

Physical sensors

with KNX connection Motion/presence

UP 258D..



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	Dimensions (WxHxD) [mm]	Stock no.	Product no.
KNX Presence Detector WIDE with temperature measurement		120 x 41 x 120	5WG1258-2DB31	UP 258D31
KNX Presence Detector WIDE black with temperature measurement	Black	120 x 120 x 41	5WG1258-2DB33	UP 258D33
KNX Presence Detector WIDE pro with temperature and relative humidity measurement		120 x 120 x 41	5WG1258-2DB41	UP 258D41
KNX Presence detector WIDE pro with temperature and relative humidity measurement	Black	120 x 41 x 120	5WG1258-2DB43	UP 258D43
KNX Presence Detector WIDE multi with temperature, humidity and CO2 measurement		120 x 120 x 41	5WG1258-2DB51	UP 258D51
KNX Presence Detector WIDE multi with temperature, humidity and CO2 measurement	Black	120 x 41 x 120	5WG1258-2DB53	UP 258D53

New Product

- 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**

KNX Presence Detector / Motion detector with constant light level control

- 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

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





Stock no. Product no.

UP 258E22 5WG1258-2EB22

Physical sensors

with KNX connection Motion/presence

UP 258D12





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

 Dimensions (W x H x D)
 88 x 63 x 88 mm

 Warranty
 24 Months

 Stock no.
 Product no.

 5WG1258-2DB12
 UP 258D12

Accessories for UP 258D12, UP 258E22 and UP 255D21

AP 258E01





Surface Mounting Enclosure (white)

• For fixing the presence detectors UP 258D12 and UP 258E22 and the brightness sensor UP 255D21 as a surface mounting device

Data sheet A6V10416111 Warranty 24 Months

 Stock no.
 Product no.

 5WG1258-7EB01
 AP 258E01

IR remote control S 255/11

- 6 pushbutton pairs for the remote control of lighting, shutter/blinds and scenes
- Parameterization via ETS in the presence detectors UP 258E22, UP 258D12 and UP 258D.. and in the brightness sensor UP 255D21
- Range: up to 10 m
- Power supply: CR2025 lithium button cell
- Degree of protection (acc. to EN 60529): IP40

 Data sheet
 A6V11786011

 Dimensions (W x H x D)
 40 x 87 x 6 mm

 Warranty
 24 Months





Stock no. Product no.

5WG1255-7AB11 **S 255/11**

with KNX connection Motion/presence

UP 251/1..







Motion detector WALL

Passive infrared detector for wall mounting for stairwells and corridors

180° angle motion detection area

Motion detection up to 18 m frontal and 4-14 m (depending on the angle of detection) laterally Its own frame included in the packaging

Brightness, temperature and humidity measurement

Integrated pushbutton for overriding the controlled light or for sending commands for lights, blinds and scenes

Integrated bus coupler, bus connection via bus terminal, operation of electronics with bus voltage LED for display of detected motions in the delivery state for easy testing

Mounting on the wall in flush-mounting box at 1,10 height, valid for conduit boxes type CEE/VDE, China and Switzerland

Protection type: IP 20

- 4 light (movement detector) channels
- Selectable outputs per channel (on/off, dimming level, scene)
- Automatic or semiautomatic mode
- Parallel operation of more movement detectors possible
- Brightness function with configurable treshold and offset
- Basic illumination with dimming, so that at the end of the detection the sensor can set the light to a defined dimming level for a configurable time
- Day/night function, allowing the outputs and trigger times of the light channel to be different for day or night
- Locking object for each channel
- Adjustable range for movement detection
- 2 indepedent thresholds for temperature and humidity
- Constant light control
- Presence and absence functions, brightness independent
- HVAC function to send room operating modes, brightness independent
- Twilight treshold, movement independent
- Sabotage (device function)
- Object for dew point alarm
- Comfort field for a thermal comfort output
- Two logic operation (AND/OR/EXOR)

Product Title	Color	Dimensions (WxHxD) [mm]	Stock no.	Product no.
KNX Motion detector WALL	White	80 x 80 x 50	5WG1251-2AB11	UP 251/11
KNX Motion detector WALL black	Black	80 x 80 x 50	5WG1251-2AB12	UP 251/12

- 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

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

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

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 teachin 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) Warranty 24 Months

72 x 110 x 54 mm

UP 255D21











Product no.

Stock no.

with KNX connection Temperature, humidity

AQR2530NNW





Front module for base module, without sensor

- 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) $55 \times 55 \times 12 \text{ mm}$ 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.

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 $^{\circ}$ 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.

11

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
 II	 	 	-: '	 	

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.

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
- $\ \, \text{Threshold switches with logical combination of brightness and temperature}$
- Optional teach-in of brightness threshold for each universal channel by means of an associated teachin 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

with KNX connection Temperature, humidity

QMX3.P30





Room sensor KNX for temperature, white

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

 $\begin{array}{ll} \mbox{Measuring range, temperature} & 0...50 \ \mbox{$^{\circ}$C} \\ \mbox{Sensing element, temperature} & \mbox{NTC} \\ \mbox{Communication} & \mbox{KNX PL-Link} \end{array}$

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 sensor KNX for temperature, black

QMX3.P30-1BSC

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



KNX S-Mode KNX LTE-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-H123
 QMX3.P30-1BSC

with KNX connection Temperature, humidity

QMX3.P40





Room sensor KNX for temperature and humidity, white

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

 $\begin{array}{lll} \mbox{Measuring range, temperature} & 0...50 \ \mbox{°C} \\ \mbox{Sensing element, temperature} & \mbox{NTC} \\ \mbox{Communication} & \mbox{KNX PL-Link} \\ \mbox{KNX S-Mode} \end{array}$

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 sensor KNX for temperature and humidity, black

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



Humidity: 10%...95 % r.F.

Sensing element Temperature sensor, relative humidity sensor

Measuring range, temperature0...50 °CSensing element, temperatureNTCCommunicationKNX 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

Accessories for QMX3..

Product Title	Dimensions (W x H)	Stock no.	Product no.
Basic plate for conduit and cavity wall box	80.5 x 115 mm	S55624-H110	QMX3.MP1

with KNX connection Temperature, humidity

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

Analog inputs Passive temperature sensor NTC 10k

Digital inputs, number

Digital inputs Potential-free contacts

Warranty 60 Months

Range overview AQR2570..

Mechanical design	Operating voltage [V]	Measuring range, temperature [°C]	Display	Stock no.	Product no.
EU (CEE/VDE)	DC 2129	050	No display	S55720-S203	AQR2570NF
IT (3 Modular)				S55720-S205	AQR2570NG
UK (British Standard)				S55720-S204	AQR2570NH
US (UL)				S55720-S206	AQR2570NJ

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 CO₂

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

with KNX connection Temperature, humidity, air quality

QMX3.P70-1BSC





Room sensor KNX for temperature, humidity, CO2, black

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

Measuring range 400...10000 ppm CO₂

Sensing element Temperature sensor, CO2 sensor, relative humidity

sensor

 $\begin{array}{lll} \mbox{Measuring range, temperature} & 0...50 \ \mbox{^{\circ}C} \\ \mbox{Sensing element, temperature} & \mbox{NTC} \\ \mbox{Communication} & \mbox{KNX PL-Link} \\ \mbox{KNX S-Mode} \end{array}$

KNX LTE-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-H125	QMX3.P70-1BSC

Accessories for QMX3..

Product Title	Dimensions (W x H)	Stock no.	Product no.
Basic plate for conduit and cavity wall box	80.5 x 115 mm	S55624-H110	QMX3.MP1

• Front module with sensors

 $\bullet\,$ Matching the DELTA line and DELTA miro frame program

Data sheet N1411

Titanium white Color

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
050	Active			55 x 55 x 12	S55720-S136	AQR2532NNW
050	Active	0100		55 x 55 x 12	S55720-S141	AQR2535NNW
050	Active	0100	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.

with KNX connection

Temperature, humidity, air quality

AQR2576..





Base modules with KNX for CO₂ measurement

- 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 CO₂: 0...5000 ppm

Analog inputs, number

Analog inputs Passive temperature sensor NTC 10k

Digital inputs, number

Digital inputs Potential-free contacts

Warranty 60 Months

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

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 \pm 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 $0...50 \,^{\circ}\text{C}$ Sensing element, temperature Digital

Time constant Temperature: \leq 8.5 min (depending on air

movement and thermal coupling to the wall)

Measurement accuracy Temperature at 21...25 °C: ±0.3 K

Temperature at 15...21 °C/25...35 °C: \pm 0.7 K Temperature at 0...15 °C/35...50 °C: \pm 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.
355/20-3550	QAA2890/WI

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 sheetN1411Signal output temperatureActiveMeasuring range, temperature0...50 °CColorTitanium 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

 ${\bf Matching\ the\ DELTA\ line\ and\ DELTA\ miro\ frame\ program.\ See\ chapter\ Display\ and\ Operation\ Units.}$

The relevant base modules must be ordered separately. See chapter Physical sensors.

without KNX connection **Temperature**

QAD2012



Strap-on temperature sensor Pt1000

QAD2012 TEMP.SENSOR CLAMP-ON PT1000

• Supplied complete with strap for pipe diameters from 15...140 mm.

Data sheet N1801 Measuring range, temperature -30...130 °C Sensing element, temperature Pt1000 Sensing element inside housing Time constant 3 s

Display No display Dimensions (W x H x D) 60 x 67 x 43 mm Warranty 60 Months

Stock no. Product no. BPZ:QAD2012 QAD2012

QAA20..1



Room temperature sensors, active

N1749 Data sheet 0...50 °C Measuring range, temperature Time constant 7 min

at AC 24 V in the range of Measurement accuracy -25 °C...+25 °C ± 0.75 K

-50 °C...+50 °C ±0.9 K Connection, electrical Screw terminals

Degree of protection IP30

90 x 100 x 36 mm Dimensions (W x H x D) Warranty 60 Months

Range overview QAA20..1

Analog output, signal	Operating voltage [V]	Display	Stock no.	Product no.
DC 010 V	AC 24 DC 13.535		BPZ:QAA2061	QAA2061
DC 010 V	AC 24 24 DC 13.535	LCD	BPZ:QAA2061D	QAA2061D
DC 420 mA	DC 13.535		BPZ:QAA2071	QAA2071

Room temperature sensor Pt1000

QAA2012

• Passive sensors for acquiring the temperature in rooms.

Data sheet N1745
Sensing element Pt1000

inside housing

Sensing element, temperature Pt1000 Time constant 420 s Measuring range, temperature 0...50 $^{\circ}$ C

Degree of protection IP30

Dimensions (W x H x D) 90 x 100 x 32 mm Warranty 60 Months

Stock no.	Product no.
BPZ:QAA2012	QAA2012

Outside sensor Pt1000 QAC2012

• For acquiring the outside temperature and – to a lesser degree – solar radiation, the effect of wind and the temperature of the wall.

Data sheet N1811
Measuring range, temperature -50...70 °C
Sensing element Pt1000
inside housing

Sensing element, temperature Pt1000
Time constant 840 s
Measurement accuracy $0 \, ^{\circ}\text{C:} \pm 0.3 \, \text{K}$ Display No display
Dimensions (W x H x D) 80 x 92 x 50 mm



BPZ:QAC2012



QAC3161

without KNX connection **Temperature**

Outside/room temperature sensor DC 0...10 V

Active sensor for acquiring the outside temperature. For use in heating, ventilation and air conditioning plants.

The QAC31.. may be used as an high-quality room sensor.

Data sheet Operating voltage AC 24...24 V 24 V

DC 13.5...35 V

Power consumption 1 VA Sensing element Pt1000

outside housing

Pt1000 Sensing element, temperature -50...50 °C Measuring range, temperature

Measurement accuracy At -50...50 °C: ±0.9 K

Time constant 1200 s

Connection, electrical Screw terminals Analog output, signal DC 0...10 V Display No display

IP65 Degree of protection

Dimensions (W x H x D) 80 x 106 x 39 mm Warranty 60 Months

Stock no. Product no. BPZ:QAC3161 QAC3161

AQR2540..



Base modules for temperature and humidity measurement

• Base module without sensor for plugging onto a front module

Data sheet N1410 Operating voltage AC 24 V DC 15...36 V Connection, electrical Screw terminals Analog output, signal DC 0...10 V DC 2...10 V DC 0...5 V DC 0...20 mA DC 4...20 mA

DC 0...10 mA Digital outputs CO: 1

Potential-free Warranty 60 Months

Range overview AQR2540..

Mechanical design **Dimensions** Stock no. Product no. (WxHxD)

[mm]

EU (CEE/VDE) 71 x 71 x 45 S55720-S142 AQR2540NF

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 \pm 0.3 °C & \pm 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 $0...50 \,^{\circ}\text{C}$ 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)

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 range50 mDisplayNo displayColorWhite (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	OF A 2890/W/I

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

AQR2535NNW

- 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.

without KNX connection **Humidity**

QFA2000



Room sensor for humidity (DC 0...10 V)

• For relative humidity.

Data sheet N1857 Signal output humidity DC 0...10 V Operating voltage AC 19.2...28.8 V

24 V DC 13.5...35 V

Voltage supply External SELV power supply AC/DC 24 V nominal

Measurement range humidity 0...95 % r.h.

Measurement accuracy 23 °C: 23 % r.h., 0...95 % r.h.: ±5 % r.h.At 23 °C,

30...70 % r.h.: ±5 % r.h.

Humidity: 20 s Time constant

Temperature: 510 s

Analog output, signal DC 0...10 V Dimensions (W x H x D) 90 x 100 x 36 mm Warranty 60 Months

> Stock no. Product no. BPZ:QFA2000 QFA2000

QFA2060

Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V)



• For relative humidity and temperature.

Data sheet N1857 Signal output humidity DC 0...10 V Signal output temperature DC 0...10 V Operating voltage AC 19.2...28.8 V 24 V

DC 13.5...35 V Voltage supply External SELV power supply AC/DC 24 V nominal

Sensing element, temperature DC 0...10 V Measuring range, temperature 0...50 °C -35...35 °C -40...70 °C

0...95 % r.h.

Measurement range humidity Measurement accuracy 23 °C: 23 % r.h., 0...95 % r.h.: ±5 % r.h.At 23 °C,

30...70 % r.h.: ±5 % r.h.

Humidity: 20 s Time constant

Temperature: 510 s DC 0...10 V 90 x 100 x 36 mm

Analog output, signal Dimensions (W x H x D) 60 Months Warranty

Stock no. Product no. BPZ:QFA2060 QFA2060

QFA2060D

Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V), with digital Display $\,$

• For relative humidity and temperature.

Data sheet N1857
Signal output humidity DC 0...10 V
Signal output temperature DC 0...10 V
Operating voltage AC 19.2...28.8 V

24 V

DC 13.5...35 V

Voltage supply External SELV power supply AC/DC 24 V nominal

Sensing element, temperature DC 0...10 V Measuring range, temperature 0...50 $^{\circ}$ C -35...35 $^{\circ}$ C

-40...70 °C 0...95 % r.h.

Measurement range humidity 0...95 % r.

Measurement accuracy 23 °C: 23 % r.h., 0...95 % r.h.: ±5 % r.h.At 23 °C,

30...70 % r.h.: ±5 % r.h.

Time constant Humidity: 20 s
Temperature: 510 s

Display LCD

 Analog output, signal
 DC 0...10 V

 Dimensions (W x H x D)
 90 x 100 x 36 mm

 Warranty
 60 Months

Stock no. Product no.

BPZ:QFA2060D QFA2060D

Base modules for temperature and humidity measurement

• Base module without sensor for plugging onto a front module

Data sheet N1410
Operating voltage AC 24 V

DC 15...36 V
Connection, electrical Screw terminals
Analog output, signal DC 0...10 V
DC 2...10 V

DC 0...5 V DC 0...20 mA DC 4...20 mA DC 0...10 mA CO: 1 Potential-free

Warranty 60 Months

Range overview AQR2540..

Digital outputs

Mechanical design Dimensions Stock no. Product no.

(WxHxD) [mm]

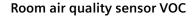
EU (CEE/VDE) 71 x 71 x 45 S55720-S142 **AQR2540NF**

AQR2540..



without KNX connection Air quality

QPA1000



Note: Not suited for safety-related applications!

 Data sheet
 N1961

 Operating voltage
 AC 24 V

 DC 15...35 V
 DC 0...5 V

 DC 0...10 V
 DC 4...20 mA

Ambient temperature, operation $0...50 \,^{\circ}\text{C}$ Connection, electrical Screw terminals Dimensions (W x H x D) $90 \, \text{x} \, 100 \, \text{x} \, 36 \, \text{mm}$ Warranty $60 \, \text{Months}$

 Stock no.
 Product no.

 \$55720-\$119
 QPA1000

QPA1004

Room air quality sensor CO₂

Note: Not suited for safety-related applications!

Data sheetA6V101099173Operating voltageAC 24 VDC 15...35 VAnalog output, signalDC 0...10 VMeasuring range0...2000 ppm CO₂Ambient temperature, operation0...50 °CConnection, electricalScrew terminals

Connection, electrical Screw terminals
Dimensions (W x H x D) 90 x 100 x 36 mm
Warranty 60 Months

 Stock no.
 Product no.

 \$55720-\$453
 QPA1004

QPA1064

Room air quality sensor CO2 / temperature

Note: Not suited for safety-related applications!

 Data sheet
 A6V101099173

 Operating voltage
 AC 24 V

 DC 15...35 V
 DC 0...10 V

 DC 4...20 mA
 DC 3...50 °C

 $\begin{array}{lll} \text{Measuring range} & 0...2000 \text{ ppm CO}_2 \\ \text{Ambient temperature, operation} & 0...50 \, ^{\circ}\text{C} \\ \text{Connection, electrical} & \text{Screw terminals} \\ \text{Dimensions (W x H x D)} & 90 \, \text{x} \, 100 \, \text{x} \, 36 \, \text{mm} \\ \text{Warranty} & 60 \, \text{Months} \end{array}$

 Stock no.
 Product no.

 \$55720-\$454
 QPA1064

Wireless room sensor for temperature, humidity and CO2

- Wireless communication via KNX IoT over Thread
- Measurement accuracy up to \pm 0.3 °C, \pm 2 % r.h. & \pm 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 $0...50\,^{\circ}\text{C}$ Sensing element, temperature Digital

Time constant Rel. humidity: 20 s (depending on air flow)

Temperature: \leq 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 CO₂

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: \pm 0.7 K Temperature at 0...15 °C/35...50 °C: \pm 1 K CO2 at 0...2000 ppm: \pm 2 % m.v. / \pm 50 ppm

Communication 2400...2483.5 MHz

Indoor wireless range50 mDisplayNo displayColorWhite (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

Room air quality sensor CO₂

Note: Not suited for safety-related applications!

Data sheet N1961 Operating voltage AC 24 V

AC 24 V DC 15...35 V

Analog output, signal DC 0...5 V

DC 0...10 V DC 4...20 mA

Ambient temperature, operation $0...50 \,^{\circ}\text{C}$ Connection, electrical Screw terminals Dimensions (W x H x D) $90 \, \text{x} \, 100 \, \text{x} \, 36 \, \text{mm}$ Warranty $60 \, \text{Months}$



Product no.

BPZ:QPA2000

QPA2000





QPA2000

without KNX connection Air quality

QPA2002

Room air quality sensor CO₂+VOC

Note: Not suited for safety-related applications!

Data sheet N1961 Operating voltage AC 24 V DC 15...35 V DC 0...5 V Analog output, signal DC 0...10 V DC 4...20 mA

Ambient temperature, operation 0...50 °C Connection, electrical Screw terminals 90 x 100 x 36 mm Dimensions (W x H x D) 60 Months Warranty

Stock no. Product no. BPZ:QPA2002 QPA2002

QPA2060

Room air quality sensor CO₂+temperature

Note: Not suited for safety-related applications!

N1961 Data sheet AC 24 V Operating voltage DC 15...35 V Analog output, signal DC 0...5 V DC 0...10 V DC 4...20 mA Measuring range, temperature 0...50 °C -35...35 °C

0...50 °C Ambient temperature, operation Connection, electrical Screw terminals 90 x 100 x 36 mm Dimensions (W x H x D) Warranty 60 Months

Stock no. Product no. BPZ:QPA2060 **QPA2060**

QPA2062

Room air quality sensor CO₂+temperature+rel. air humidity

Note: Not suited for safety-related applications!

Data sheet N1961 Operating voltage AC 24 V DC 15...35 V

Analog output, signal DC 0...5 V

DC 0...10 V DC 4...20 mA 0...50 °C

Measuring range, temperature -35...35 °C

Measurement range humidity 0...95 % r.h. Ambient temperature, operation 0...50 °C Connection, electrical Screw terminals 90 x 100 x 36 mm Dimensions (W x H x D) 60 Months Warranty

Stock no. Product no. BPZ:QPA2062 QPA2062

Room air quality sensor CO₂+temperature+rel. air humidity with display

QPA2062D

Note: Not suited for safety-related applications!

 Data sheet
 N1961

 Operating voltage
 AC 24 V

 DC 15...35 V

 Analog output, signal
 DC 0...5 V

DC 0...10 V DC 4...20 mA

Measuring range, temperature $0...50 \,^{\circ}\text{C}$ $-35...35 \,^{\circ}\text{C}$



Stock no. Product no.

BPZ:QPA2062D QPA2062D

Fine dust sensor, 0-10V & Modbus

Room sensor for detection of PM2.5 and PM10

 Data sheet
 A6V11160938

 Operating voltage
 AC/DC 24 V

 DC 24 V
 DC 24 V

 Connection cable
 Micro USB

 Analog outputs
 DC 0...10 V

Display 3-color LED service indication
Communication Modbus RTU (RS-485)
Dimensions (W x H x D) 86 x 86 x 30 mm
Warranty 60 Months



QSA2700

 Stock no.
 Product no.

 \$55720-\$457
 Q\$A2700

Fine dust sensor +display, 0-10V, Modbus

Room sensor with LCD display for detection of PM2.5 and PM10

Data sheet A6V11160938
Operating voltage AC 24 V
DC 24 V

Connection cable Micro USB
Analog outputs DC 0...10 V
Display LCD; 2.4 "

CommunicationModbus RTU (RS-485)Dimensions (W x H x D)86 x 86 x 30 mmWarranty60 Months



 Stock no.
 Product no.

 S55720-S458
 QSA2700D

without KNX connection Air quality

AQR253..



Front modules for base module

- 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
050	Active			55 x 55 x 12	S55720-S136	AQR2532NNW
050	Active	0100		55 x 55 x 12	S55720-S141	AQR2535NNW
050	Active	0100	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.

AQR2546..



Base modules with integrated CO₂ measurement

• Base module with maintenance-free CO2 sensing element to plug onto a front module

Data sheet N1410 AC 24 V Operating voltage DC15...36 V Analog output, signal DC 0...10 V DC 2...10 V DC 0...5 V DC 0...20 mA DC 4...20 mA DC 0...10 mA Connection, electrical Screw terminals Digital outputs 1-pin Potential-free Changeover contact Warranty 60 Months

Range overview AQR2546..

Measuring range	Mechanical design	Dimensions (WxHxD)	Stock no.	Product no.
[ppm CO ₂]		[mm]		
02000	EU (CEE/VDE)	71 x 71 x 45	S55720-S147	AQR2546NF

Base modules with integrated VOC measurement

• Base module with VOC sensing element to plug onto a front module

Data sheet N1410 Operating voltage AC 24 V DC 15...36 V Analog output, signal DC 0...10 V DC 2...10 V DC 0...5 V DC 0...20 mA DC 4...20 mA DC 0...10 mA Connection, electrical Screw terminals Digital outputs 1-pin

Potential-free

Changeover contact

Warranty 60 Months

Range overview AQR2547..

Measuring Mechanical design Dimensions Stock no. Product no. range (WxHxD)

[mm]

0...100 % VOC EU (CEE/VDE) 71 x 71 x 45 S55720-S146 AQR2547NF

Base modules with integrated CO₂ and VOC measurement

• Base module with maintenance-free CO₂/VOC sensing element to plug onto a front module

 Data sheet
 N1410

 Operating voltage
 AC 24 V

 DC 15...36 V
 DC 0...10 V

 DC 2...10 V
 DC 0...5 V

 DC 0...20 mA
 DC 4...20 mA

 DC 0...10 mA
 DC 0...10 mA

Digital outputs CO: 1

Potential-free

Warranty 60 Months

Range overview AQR2548..



AQR2548..

Physical sensors without KNX connection **Sunlight intensity**

QLS60	Solar sensor			
	For measuring the solar radiation intensity.			
	Data sheet	N1943		
	Operating voltage	AC 24 V		
		DC 1830 V		
	Power consumption	2.5 VA		
	Measuring range	01000 W/m2		
	Time constant	2 s		
	Connection, electrical	Screw terminals		
	Analog output, signal	DC 010 V		
		DC 420 mA		
	Dimensions (W x H x D)	50 x 65 x 35 mm		
	Warranty	60 Months		

Stock no. Product no. BPZ:QLS60 QLS60