

# SIEMENS

## Albatros2

### Controller, HMI and accessories

### Range Description

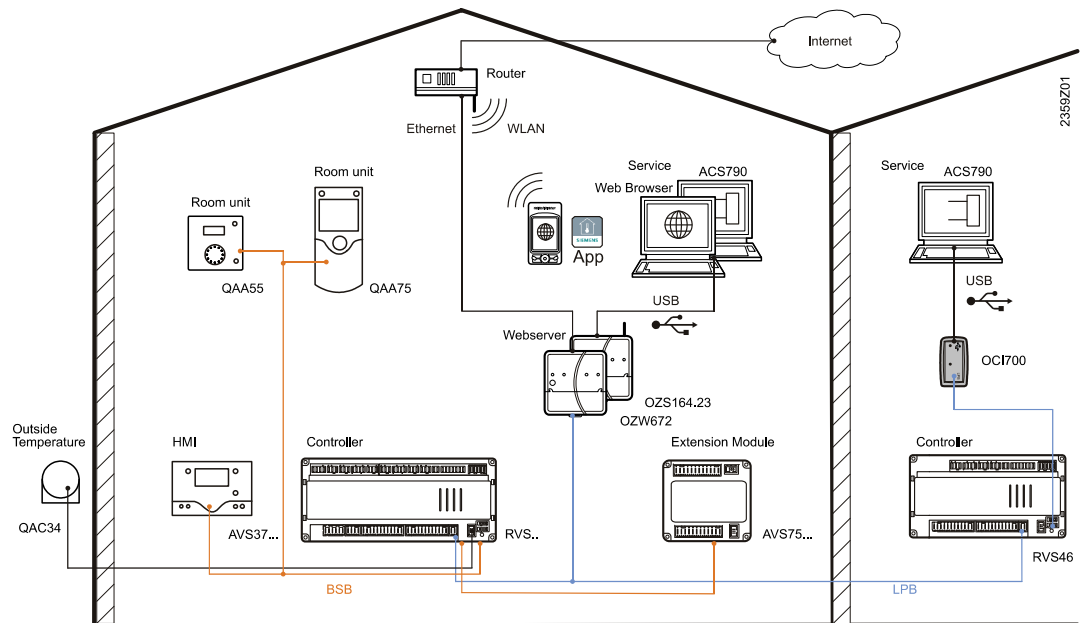


# Albatros2 product range

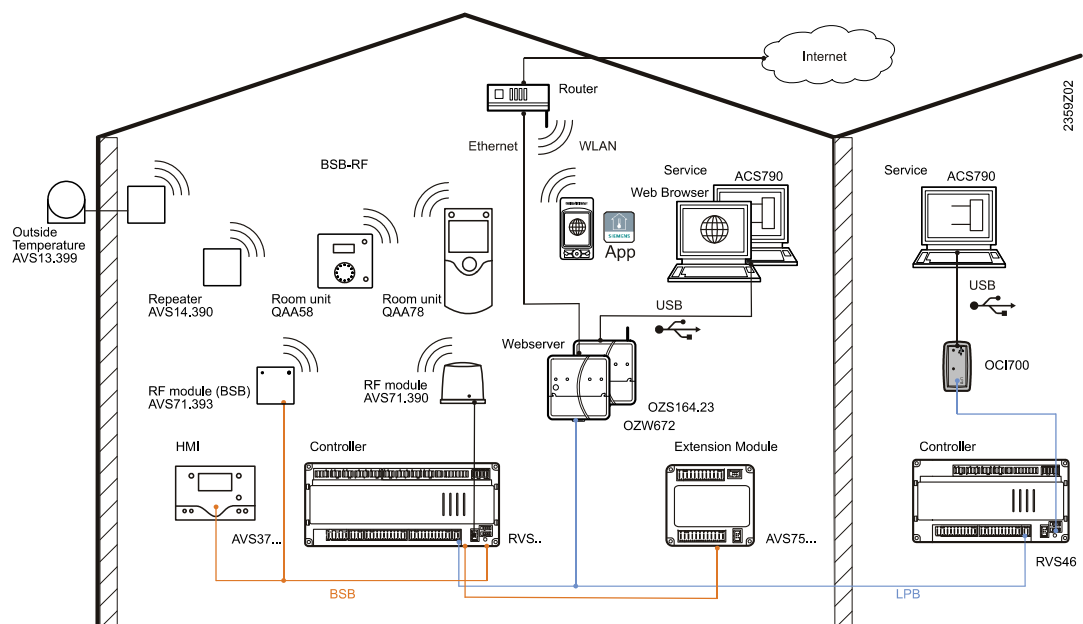
Albatros2, or:

- Intelligent control functions for the highest level of energy efficiency.
- Complete product range for all tasks in the heating segment.
- Scalable, modular concept for simple to complex plants.
- Modern communications and visualization.
- Auxiliary devices featuring RF or wired communications.

## Wired



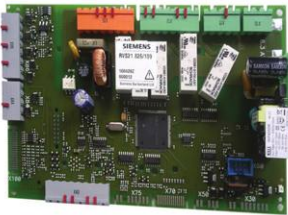
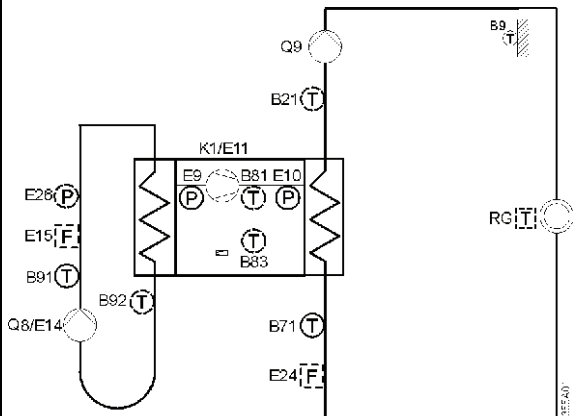
## Wireless




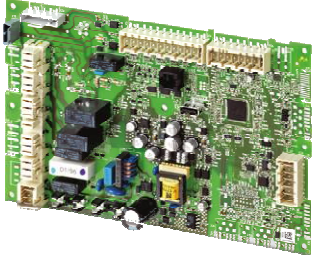
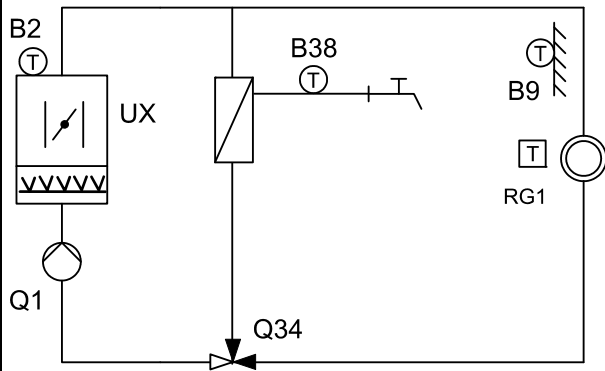
# Controller


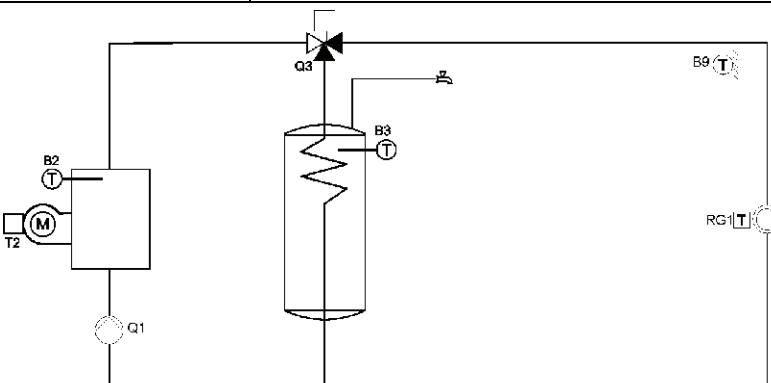
	RVS21.826	RVS61.843	LMS14/15	RVS13.143	RVS43.345	RVS63.283	RVS46.530	RVS46.543	RVA78.690
<b>Heat pump</b>	■	■							
Two-stage heat pumps		■							
<b>Boiler</b>			■	■	■	■			
2-stage burner/modulating burner (3-point)					■	■			
Modulating fan (PWM output)			■						
Combustion optimization Sitherm Pro (LMS15 only)			■						
<b>Supplementary source</b>	■	■			■				■
<b>Solar integration</b>	■	■	■	■	■	■		■	■
Buffer, swimming pool	■	■	■		■	■			■
Modulating solar pump	■	■	■		■	■			■
<b>Solid fuel boiler integration</b>	■	■	■		■	■			■
<b>Cascade</b>	■	■	■		■	■			
<b>Heating circuit control</b>	■	■	■	■	■	■	■	■	
<b>Cooling circuit control</b>	■	■			■		■	■	
<b>DHW control</b>	■	■	■	■	■	■		■	
<b>Instantaneous DHW heater (down stream of storage tank)</b>	■	■	■			■		■	
<b>Buffer storage tank</b>	■	■	■		■	■			
<b>LPB</b>	■*	■	■*		■	■	■	■	


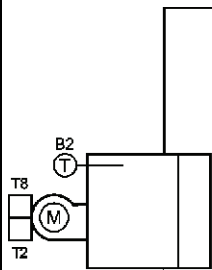
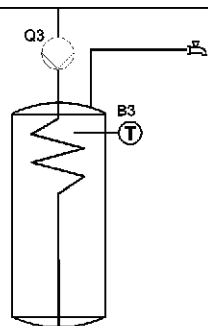
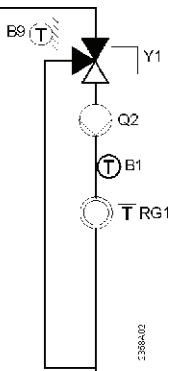
\* with LPB-Clip-in OCI345.06/101


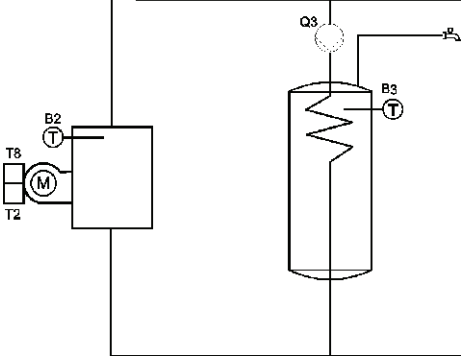
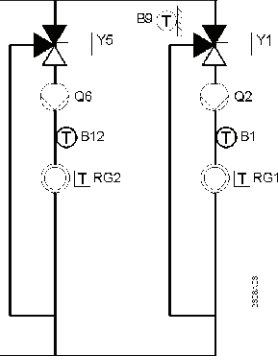
ALBATROS2 HEATPUMPCONTROLLER, PCB		RVS21.826	
<b>Inputs, number</b>		<b>Outputs, number</b>	
Mains	4 EX	Relay	5 QX
Sensor	4 BX	Digital	3 fixed at X75
Digital/0..10V	4 (2 fixed at X75, 2 HX)	Triac	1 ZX
		0..10V/PWM	3 UX
		5/12V act. sensors	1 GX
			
<b>Connection to</b>	<b>Designation</b>	<b>With/on</b>	<b>Designation</b>
Operator units	AVS37.x9x (HMI)	Ribbon cable	AVS82.490/109, ...491/109
Extension modules	AVSx5.39x, AVS75.370 (max. 3 module)	Ribbon cable	AVS82.490/109, ...491/109
I/O modules	AVS55.19x (max. 1 module)	Ribbon cable	AVS82.496/109
Service tool	OCI700.1 (including ACS790)	"BSB" slot	Cable included in delivery
Radio module	AVS71.390 (for BSB-RF)	"X60" slot	Cable included in delivery
BSB devices	e.g. room units QAAxx	CL-, CL+ to "X86"	
LPB devices	e.g. LPB controller	LPB clip-in	OCI345.06/101
Various plugs	AGP5S...		
<b>Power supply</b>	Voltage	230 V ~, 50/60 Hz	
<b>Degree of protection</b>	As per EN 60529	IP 00 (no housing)	
<b>Climatic conditions (operation)</b>	as per EN 60721-3-3	class 3K5, -20...50 °C (non-condensing)	
<b>Ground</b>	Length x Width x Height	185 x 115 x 42 mm	
<b>Weight</b>	Excl. packaging	193 g	
<b>Packaging unit</b>	includes	28 pieces	
<b>User Manual</b>	CE1U2355en_041, CE1U2355en_041a		
<b>Plant diagram</b>	<ul style="list-style-type: none"> <li>● Selection of 17 preset diagrams of complete plants.</li> <li>● Compilation of partial diagrams as per CE1P2359_10.</li> </ul>		
<b>Examples</b>	Plant diagram 1: Brine-to-water heat pump with pump heating circuit.		
		EX1 EX2 QX3 QX5 ZX6 BX1 BX2 BX3 BX4	Low-pressure switch E9 High-pressure switch E10 Compressor stage 1 K1 Condenser pump Q9 Source pump Q8/Fan K19 Source inlet B91 HP flow sensor B21 HP return sensor B71 Outside sensor B9

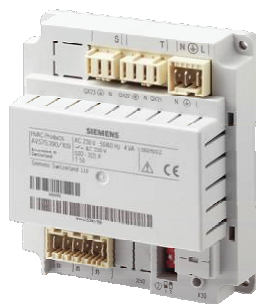
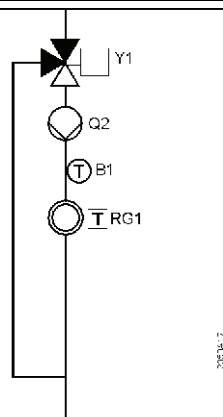
ALBATROS2 HEATPUMP CONTROLLER		RVS61.843 (as of series C)		
<b>Inputs, number</b>		<b>Outputs, number</b>		
Mains	10 EX	Relay	12 QX	
Sensor	11 BX	Triac	1 ZX	
Digital-/0..10V	2 HX	0..10V/PWM	2 UX	
<b>Connection to</b>				
<b>Designation</b>	<b>With/on</b>	<b>Designation</b>		
Operator units	AVS37.x9x (HMI)	Ribbon cable	AVS82.490/109, ...491/109	
Extension modules	AVSx5.39x (max. 3 modules)	Ribbon cable	AVS82.490/109, ...491/109	
Service tool	OCI700.1 (including ACS790)	"BSB" slot	Cable included in delivery	
Radio module	AVS71.390 (for BSB-RF)	"X60" slot		
BSB devices	e.g. room units QAxx	Terminals CL-, CL+		
Service tool	OCI700.1 (including ACS790)	"LPB" slot	Cable included in delivery	
LPB devices	e.g. LPB controller	Terminals MB, DB		
Various plugs	AGP4S..., AGP8S...			
<b>Power supply</b>				
Voltage	230 V ~, 50/60 Hz			
<b>Degree of protection</b>				
As per EN 60529	IP 00			
<b>Climatic conditions (operation)</b>				
as per EN 60721-3-3	class 3K5, -20...50 °C (non-condensing)			
<b>Ground</b>				
Length x Width x Height	281 x 121 x 70 mm			
<b>Weight</b>				
Excl. packaging	650 g			
<b>Packaging unit</b>				
Contents	1 piece or 20 piece			
<b>User Manual</b>				
CE1U2355en_051, CE1U2355en_051a				
<b>Plant diagram</b>				
<ul style="list-style-type: none"> <li>● Selection of 24 preset diagrams of complete plants.</li> <li>● Compilation of partial diagrams as per CE1P2359_10.</li> </ul>				
<b>Examples</b>				
Plant diagram 5: Brine-to-water heat pump with buffer storage tank, DHW storage tank with charging pump Q3, and mixing or pump heating circuit.				


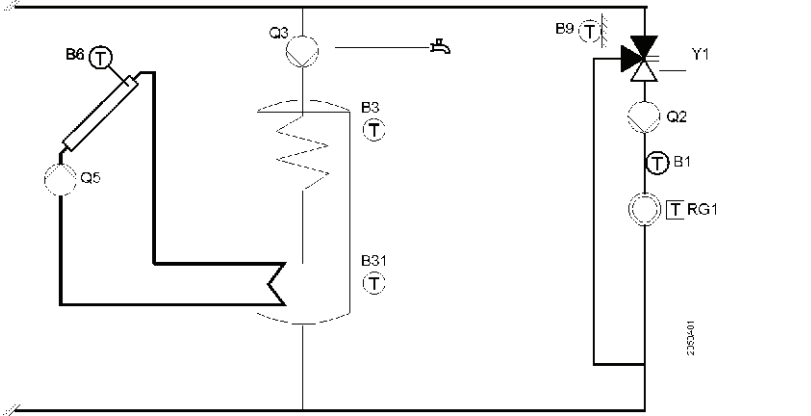
ALBATROS2 BOILER MANAGEMENT UNIT, PCB		LMS14/15		
Inputs, number		Outputs, number		
Mains	1 fix (STB)	Relay	3 QX	
Sensor	7 (3 fix, 4 BX)	Stepping motor	1 QX	
Digital- /0..10V/Frequency	6 HX	PWM	1 PX	
Connection to	Designation	With/on	Designation	
Operator units	AVS37.x9x (HMI)	Ribbon cable	AVS82.490/109, ...491/109	
Extension modules	AVSx5.39x, AGU2.55x (max. 3 modules)	Ribbon cable	AVS82.490/109, ...491/109 AGU2.110A109	
Service tool	OCI700.1 (including ACS790)	"BSB,LPB" slot	Cable included in delivery	
Radio module	AVS71.390 (for BSB-RF)	"X60" slot		
BSB devices	e.g. room units QAAXx	Terminals CL-, CL+		
Lab tool	OCI430 (including ACS420)	"X13" slot	Cable included in delivery	
Parameter stick	AGU2.56x	"X12" slot	Docking station for programming OCI432	
LPB devices	e.g. LPB controller	LPB clip-in	OCI345.06/101	
Various plugs	AGP4S..., AGP8S...			
Power supply	Voltage	230 V ~, 50 Hz; 115 V ~, 60 Hz		
Degree of protection	As per EN 60529	IP 00		
Climatic conditions (operation)	as per EN 60721-3-3	Class 3K5, 0...60 °C (non-condensing)		
Ground	Length x Width x Height	203 x 150 x 30 mm		
Weight	Excl. packaging	254 g		
Packaging unit	includes	24 pieces		
User Manual	CC1U7471en			
Plant diagram	Compilation of partial diagrams as per CE1P2359_10.			
Examples	Partial diagrams OeG12 and TWWDI6 and Rh1			
		OeG12 TWWDI6 Rh1	B2, Q1 B38, Q34 (+ 1 configuration) 1 configuration	

ALBATROS2 BOILER CONTROLLER		RVS13.143		
<b>Inputs, number</b>		<b>Outputs, number</b>		
Mains	2 fixed	Mains	1 fixed	
Sensor	6 (4 fix, 2 BX)	Relay	6 (5 fix, 1 QX)	
Digital-/0...10V	1 HX			
<b>Connection to</b>				
<b>Designation</b>	<b>With/on</b>	<b>Designation</b>		
Operator units	AVS37.x9x (HMI)	Ribbon cable	AVS82.490/109, ...491/109	
Extension modules	AVSx5.39x (max. 3 modules)	Ribbon cable	AVS82.490/109, ...491/109	
Service tool	OCI700.1 (including ACS790)	"BSB" slot	Cable included in delivery	
Radio module	AVS71.390 (for BSB-RF)	X60 slot	Cable included in delivery	
BSB devices	e.g. room units QAAxx	Terminals CL-, CL+		
Various plugs	AGP4S..., AGP8S...			
<b>Power supply</b>				
Voltage	230 V ~, 50/60 Hz			
<b>Degree of protection</b>				
As per EN 60529	IP 00			
<b>Climatic conditions (operation)</b>				
as per EN 60721-3-3	class 3K5, 0...50 °C (non-condensing)			
<b>Ground</b>				
Length x Width x Height	181 x 121 x 52 mm			
<b>Weight</b>				
Excl. packaging	566 g			
<b>Packaging unit</b>				
includes	20 pieces			
<b>User Manual</b>				
CE1U2357en_01, CE1U2357en_01a				
<b>Plant diagram</b>				
Compilation of partial diagrams as per CE1P2359_10.				
<b>Examples</b>				
Partial diagrams OeG3 and TWWSp13 and Rh1		OeG3 TWWSp13 Rh1	B2, Q1 (+ 1 configuration) B3, Q3 (+ 2 configurations) 1 configuration	


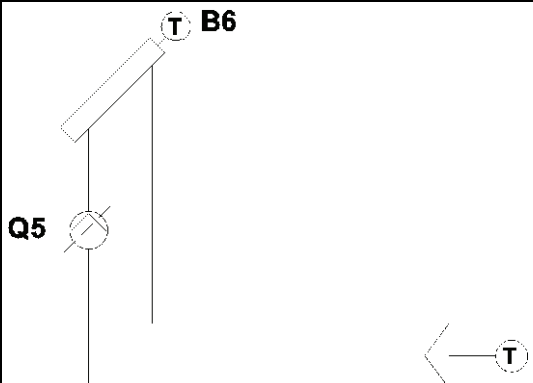
ALBATROS2 BOILER CONTROLLER		RVS43.345			
Inputs, number		Outputs, number			
Mains	4 (3 fix, 1 EX)	Mains	1 fixed		
Sensor	6 (3 fix, 3 BX)	Relay	5 (1 fix, 4 QX)		
Digital-/0..10V	2 HX	5/12V act. sensors	1 GX		
<b>Connection to</b>					
Connection to	Designation	With/on	Designation		
Operator units	AVS37.x9x (HMI)	Ribbon cable	AVS82.490/109, ...491/109		
Extension modules	AVSx5.39x (max. 3 modules)	Ribbon cable	AVS82.490/109, ...491/109		
Service tool	OCI700.1 (including ACS790)	"BSB" slot	Cable included in delivery		
Radio module	AVS71.390 (for BSB-RF)	X60 slot	Cable included in delivery		
BSB devices	e.g. room units QAAxx	Terminals CL-, CL+			
Service tool	OCI700.1 (including ACS790)	"LPB" slot	Cable included in delivery		
LPB devices	e.g. LPB controller	Terminals MB, DB			
Various plugs	AGP4S..., AGP8S...				
<b>Power supply</b>					
Power supply	Voltage	230 V ~, 50/60 Hz			
<b>Degree of protection</b>					
Degree of protection	As per EN 60529	IP 00			
<b>Climatic conditions (operation)</b>					
Climatic conditions (operation)	as per EN 60721-3-3	class 3K5, 0...50 °C (non-condensing)			
<b>Ground</b>					
Ground	Length x Width x Height	181 x 121 x 52 mm			
<b>Weight</b>					
Weight	Excl. packaging	400 g			
<b>Packaging unit</b>					
Packaging unit	includes	20 pieces			
<b>User Manual</b>					
User Manual	CE1U2354en_02, CE1U2354en_02a				
<b>Plant diagram</b>					
Plant diagram	Compilation of partial diagrams as per CE1P2359_10.				
<b>Examples</b>					
Examples	Partial diagrams OeG2 and TWWSp4 and Rh3				
					
				OeG2 TWWSp4 Rh3	
				B2 (+ 1 configuration) B3, Q3 (+ 2 configurations) 2 configurations	

ALBATROS2 BOILER CONTROLLER		RVS63.283			
<b>Inputs, number</b>		<b>Outputs, number</b>			
Mains	3 (2 fix, 1 EX)	Mains	1 fixed		
Sensor	9 (5 fix, 4 BX)	Relay, QX	12 (8 fix, 4 QX)		
Digital-/0..10V	2 HX	0...10V	1 UX		
<b>Connection to</b>					
<b>Connection to</b>	<b>Designation</b>	<b>With/on</b>	<b>Designation</b>		
Operator units	AVS37.x9x (HMI)	Ribbon cable	AVS82.490/109, ...491/109		
Extension modules	AVSx5.39x (max. 2 modules)	Ribbon cable	AVS82.490/109, ...491/109		
Service tool	OC1700.1 (including ACS790)	"BSB" slot	Cable included in delivery		
Radio module	AVS71.390 (for BSB-RF)	X60 slot	Cable included in delivery		
BSB devices	e.g. room units QAxx	Terminals CL-, CL+			
Service tool	OC1700.1 (including ACS790)	"LPB" slot	Cable included in delivery		
LPB devices	e.g. LPB controller	Terminals MB, DB			
Various plugs	AGP4S..., AGP8S...				
<b>Power supply</b>					
<b>Power supply</b>	Voltage	230 V ~, 50/60 Hz			
<b>Degree of protection</b>					
<b>Degree of protection</b>	As per EN 60529	IP 00			
<b>Climatic conditions (operation)</b>					
<b>Climatic conditions (operation)</b>	as per EN 60721-3-3	class 3K5, 0...50 °C (non-condensing)			
<b>Ground</b>					
<b>Ground</b>	Length x Width x Height	281 x 121 x 52 mm			
<b>Weight</b>					
<b>Weight</b>	Excl. packaging	648 g			
<b>Packaging unit</b>					
<b>Packaging unit</b>	Contents	1 piece or 20 piece			
<b>User Manual</b>					
<b>User Manual</b>	CE1U2354en_01, CE1U2354en_01a				
<b>Plant diagram</b>					
<b>Plant diagram</b>	Compilation of partial diagrams as per CE1P2359_10.				
<b>Examples</b>					
<b>Examples</b>	Partial diagrams OeG2 and TWWSp4 and HK1: Rh3 and HK2: Rh3				
				OeG2 TWWSp4 HK1: Rh3 HK2: Rh3	B2 (+ 1 configuration) B3, Q3 (+ 2 configurations) 2 configurations 2 configurations

ALBATROS2 ZONE CONTROLLER		RVS46.530		
<b>Inputs, number</b>		<b>Outputs, number</b>		
Sensor	2 fixed	Relay	3 fixed	
Digital-/0..10V	1 HX			
<b>Connection to</b>	<b>Designation</b>	<b>With/on</b>	<b>Designation</b>	
Operator units	AVS37.x9x (HMI)	Ribbon cable	AVS82.490/109, ...491/109	
Extension modules	AVSx5.39x (max. 2 modules)	Ribbon cable	AVS82.490/109, ...491/109	
Service tool	OCI700.1 (including ACS790)	"BSB" slot	Cable included in delivery	
Radio module	AVS71.390 (for BSB-RF)	X60 slot	Cable included in delivery	
BSB devices	e.g. room units QAAXx	Terminals CL-, CL+		
Service tool	OCI700.1 (including ACS790)	"LPB" slot	Cable included in delivery	
LPB devices	e.g. LPB controller	Terminals MB, DB		
Various plugs	AGP4S..., AGP8S...			
<b>Power supply</b>	Voltage	AC 230 V ~, 50/60 Hz		
<b>Degree of protection</b>	As per EN 60529	IP 00		
<b>Climatic conditions (operation)</b>	as per EN 60721-3-3	class 3K5, 0...50 °C (non-condensing)		
<b>Ground</b>	Length x Width x Height	109 x 121 x 52 mm		
<b>Weight</b>	Excl. packaging	431 g		
<b>Packaging unit</b>	Contents	1 piece or 20 piece		
<b>User Manual</b>	CE1U2353en_01, CE1U2353en_01a			
<b>Plant diagram</b>	Compilation of partial diagrams as per CE1P2359_10.			
<b>Examples</b>	Partial diagram Rh3			
		Rh3	1 configuration	


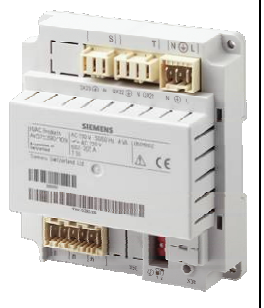


ALBATROS2 ZONE CONTROLLER		RVS46.543		
<b>Inputs, number</b>		<b>Outputs, number</b>		
Sensor	5 (3 fix, 2 BX)	Relay	5 (4 fix, 1 QX)	
Digital-/0..10V	1 HX			
<b>Connection to</b>	<b>Designation</b>	<b>With/on</b>	<b>Designation</b>	
Operator units	AVS37.x9x (HMI)	Ribbon cable	AVS82.490/109, ...491/109	
Extension modules	AVSx5.39x (max. 2 modules)	Ribbon cable	AVS82.490/109, ...491/109	
Service tool	OCI700.1 (including ACS790)	"BSB" slot	Cable included in delivery	
Radio module	AVS71.390 (for BSB-RF)	X60 slot	Cable included in delivery	
BSB devices	e.g. room units QAAXx	Terminals CL-, CL+		
Service tool	OCI700.1 (including ACS790)	"LPB" slot	Cable included in delivery	
LPB devices	e.g. LPB controller	Terminals MB, DB		
Various plugs	AGP4S..., AGP8S...			
<b>Power supply</b>	Voltage	230 V ~, 50/60 Hz		
<b>Degree of protection</b>	As per EN 60529	IP 00		
<b>Climatic conditions (operation)</b>	as per EN 60721-3-3	class 3K5, 0...50 °C (non-condensing)		
<b>Ground</b>	Length x Width x Height	181 x 121 x 52 mm		
<b>Weight</b>	Excl. packaging	587 g		
<b>Packaging unit</b>	includes	1 pieces		
<b>User Manual</b>	CE1U2353en_01, CE1U2353en_01a			
<b>Plant diagram</b>	Compilation of partial diagrams as per CE1P2359_10.			
<b>Examples</b>	Partial diagrams Sol1 and TWWSp5 and Rh3			
		Sol1 TWWSp5 Rh3	Q5, B6 Q3, B3 + 2 configurations 1 configuration	



ALBATROS2 SOLAR COMPACT CONTROLLER		RVA78.690			
<b>Inputs, number</b>		<b>Outputs, number</b>			
Sensor	4 (1 fix, 3 BX)	Triac	2 (1 fixed, 1 ZX)		
Digital	1 fixed	PWM	1 fixed		
<b>Power supply</b>				Voltage	230 V ~, 50/60 Hz
<b>Degree of protection</b>				As per EN 60529	IP 00
<b>Climatic conditions (operation)</b>				as per EN 60721-3-3	class 3K5, 0...50 °C (non-condensing)
<b>Ground</b>				Length x Width x Height	158 x 215 x 53 mm
<b>Weight</b>				Excl. packaging	530 g
<b>Packaging unit</b>				includes	1 pieces
<b>User Manual</b>				CE1U2396en	
<b>Plant diagram</b>				Compilation of partial diagrams as per CE1P2359_10.	
<b>Examples</b>				Plant diagram 1: Once collector field	
		Q5 B6	Collector pump Q5 Collector sensor B6		

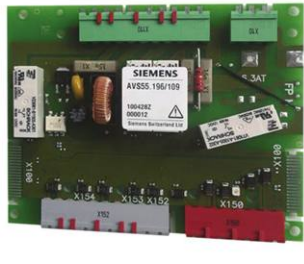

## Extension and I/O modules

### Extension modules

				
Product number	<b>AVS75.370</b>	<b>AVS75.39x</b>	<b>AGU2.550</b>	<b>AGU2.551</b>
Inputs, number				
Mains	1 EX	1 EX (AVS75.391 only)		
Sensor	2 BX	2 BX	2 BX	
Digital-/0..10 V	2 HX	1 HX	1 HX	
5/12 V act. sensors	1 GX		1 U+ (12 V)	
Outputs, number				
Relay	3 QX	3 QX	3 QX	2 QX
0..10V/PWM	2 UX			2 UX
Connection to				
Controller	AVS82.490, ...491	AVS82.490, ...491	AVS82.490, ...491 AGU2.110	AVS82.490, ...491 AGU2.110
Extension modules	AVS82.490, ...491	AVS82.490, ...491	AVS82.490, ...491 AGU2.110	AVS82.490, ...491 AGU2.110
BSB devices	Terminals CL-, CL+		Cl-, Cl+ to X50	Cl-, Cl+ to X50
Expansion valve	WX21			
Operating voltage*	230 V ~, 50/60 Hz	230 V ~, 50/60 Hz	12 V DC (via LMS)	12 V DC (via LMS)
Degree of protection	IP 00	IP 00	IP 00	IP 00
Climatic conditions (operation)	-20...50 °C	-20...50 °C	0...60 °C	0...60 °C
Dimensions (L x W)	109 x 121 mm	109 x 121 mm	108 x 55 mm	108 x 55 mm
Weight (without packaging)	248 g	293 g	84 g	100 g
Packaging unit	1 or 20 pieces	1 or 20 pieces	60 pieces	60 pieces

\* Additional technical data is available in the user guides for the controllers.

## I/O modules



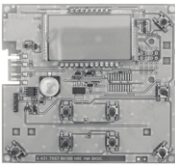

		
Product number	<b>AVS55.196</b>	<b>AVS55.199</b>
Inputs, number		
Sensor	4 BX	4 BX
Digital-/0..10 V	3 HX	3 HX
5/12 V act. sensors	1 GX	1 GX
Outputs, number		
Relay	4 QX	1 QX
Triac	1 ZX	
Connection to		
Controller	AVS82.496/109	AVS82.496/109
BSB devices	CI-, CI+ to X150	CI-, CI+ to X150
Expansion valve		WX31
Operating voltage*	230 V ~, 50/60 Hz	230 V ~, 50/60 Hz
Degree of protection	IP 00 (no housing)	IP 00 (no housing)
Climatic conditions (operation)	-20...50 °C	-20...50 °C
Dimensions (L x W)	96 x 122 mm	96 x 122 mm
Weight (without packaging)	112 g	93 g
Packaging unit	1 or 42 pieces	42 pieces

\* Additional technical data is available in the user guides for the controllers.

## Compatibility

	RVS21	RVS61	LMS1x	RVS13	RVS43	RVS63	RVS46
AVS75.370	Yes	Yes					
AVS75.39x	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AVS55.196	Yes						
AVS55.199	Yes						
AGU2.550			Yes				
AGU2.551			Yes				

## Room and operating units

				
Product number	<b>QAA55.110, QAA58.110</b>	<b>QAA75.611, QAA78.610</b>	<b>AVS37.390</b>	<b>AVS37.x9x</b>
Language set 1 *	No text	QAA7x.61x/101, .../301	No text	AVS37.x9x/10x, .../30x
Language set 2 **	No text	QAA7x.61x/501, .../701	No text	AVS37.x9x/50x, .../70x
Suited for plants				
Boiler	■	■	■	■ <sup>1)</sup>
Heat pump	■	■		AVS37.x9x/309, .../709
Operation cooling				
Cooling mode display	QAA5x.110/301	QAA7x.61x/301, .../701		AVS37.x9x/309, .../709
Cooling button		QAA7x.61x/301, .../701		AVS37.x9x/309, .../709
Communication				
Wire (BSB-W)	QAA55.110	QAA75.611	■	■
RF (BSB-RF)	QAA58.110	QAA78.610		
Form and features <sup>2)</sup>				
Room sensor, integrated	■	■		
Backlit display		QAA75.611	■	■
PCB version			■	
Installation				
Wall	■	■		
Front plate				AVS37.29x <sup>3)</sup>
Rear view			■	AVS37.39x <sup>3)</sup>
Housing color				
Basalt grey				AVS37.294, AVS37.296
White	■	■		AVS37.295, AVS37.297
Functional scope				
Basic commands	■		■	
Complete command set		■		■

\* Language set 1 contains: DE, EN, FR, IT, NL, ES, DA, SV, FI, PT

\*\* Language set 2 contains: EN, PL, CS, SK, SL, HU, EL, TR, RU, SR

1) Reset button for LMS14/15: AVS37.x96 und AVS37.x97

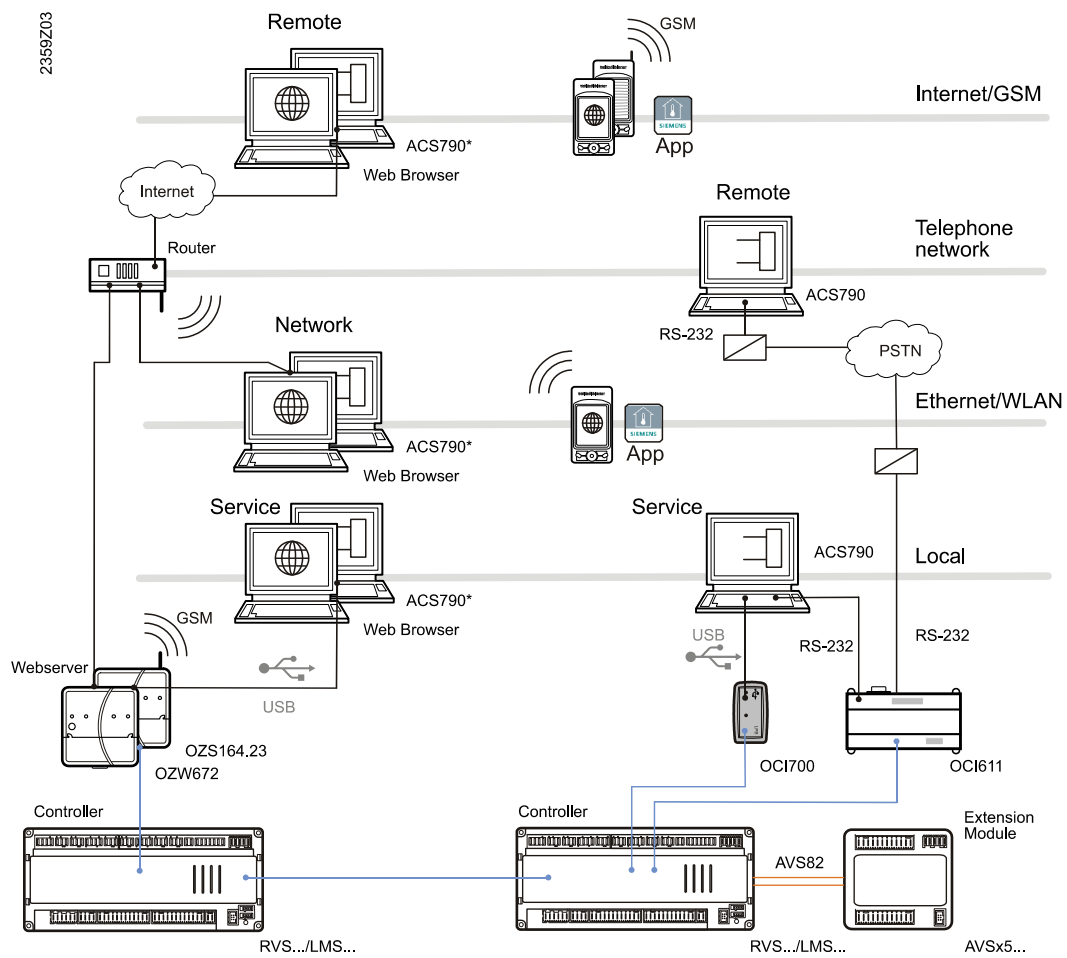
2) Device dimensions and technical data in CE1U2358en\_xx. Interfaces on partner devices in this document.

3) On AVS37.296 the service buttons are on different, on AVS37.396 on the same level.



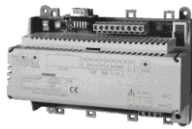

# Albatros2 communications

Albatros2, communications, means:

- Modern communications and visualization.
- Access up to the controller's energy savings functions.
- Apps for mobile end devices.
- Design by drag&drop own Web plant visualizations.



\* with OZW672 only

				
Product number	<b>OZW672...</b>	<b>OZS164.23</b>	<b>OCI611</b>	<b>OCI700</b>
Designation	Web server for LPB/BSB	Web server for LPB/BSB, GSM	Communication central control unit	Service interface
Possible connections:				
Direct connection	USB, type A to mini-B	USB, type A to mini-B	Zero modem cable, RS-232	USB, type A to B
Direct dial connection	No	No	Yes (requires modem)	No
IP connection (Internet)	Yes	Yes	No	No
GSM	No	SMS commands (GSM modem integrated)	SMS info (GSM modem required)	No
Operation	<ul style="list-style-type: none"> <li>● Web browser GUI</li> <li>● ACS790</li> <li>● HomeControl App</li> </ul>	<ul style="list-style-type: none"> <li>● Web browser GUI</li> <li>● SMS</li> </ul>	<ul style="list-style-type: none"> <li>● ACS790</li> </ul>	<ul style="list-style-type: none"> <li>● ACS790</li> </ul>
Protocol interface	<ul style="list-style-type: none"> <li>● LPB/BSB on Ethernet</li> <li>● Web API</li> </ul>	<ul style="list-style-type: none"> <li>● LPB/BSB on Ethernet</li> <li>● LPB/BSB on GSM</li> </ul>	<ul style="list-style-type: none"> <li>● LPB/BSB on RS-232</li> </ul>	<ul style="list-style-type: none"> <li>● LPB/BSB on USB</li> </ul>
Power supply	230 V ~, 50/60 HZ	100...240 V ~, 50/60 HZ	230 V ~, 50/60 HZ	DC 5 V (as per USB specification)
Degree of protection	IP30	IP30	IP30 (with terminal cover)	IP20
Climatic conditions (operation)	0...50 °C	0...50 °C	0...50 °C	0...50 °C
Dimensions (LxWxH)	88 x 90 x 40 mm	88 x 135 x 40 mm (with antenna)	161 x 110 x 62 mm	126 x 70 x 32 mm
Weight	136 g (without packaging)	143 g (without packaging)	320 g (without packaging)	1200 g (including case with ACS790 and packaging)
Data Sheet	CE1N5712en	CE1Q5711en	CE1N2533en	CE1N5655en
Commissioning instructions	CE1C5712en	CE1C5711en		
Packaging unit	1 pieces	1 pieces	1 pieces	1 pieces

# Sensor


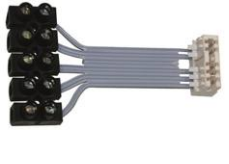



## Overview

Product number	<b>QAC34/101*</b>	<b>QAD36/101, ../201</b>	<b>QAZ36.xxx/101, ../109</b>	<b>QAK36.xxx/109</b>	<b>QAR36.xxx/109</b>
Designation	Outside sensor	Strap-on temperature sensor	Temperature sensor cable	Screw-on temperature sensor	Strap-on temperature sensor
Sensing element	NTC 1K	NTC 10K	NTC 10K	NTC 10K	NTC 10K
Range	-50...70 °C	-30...125 °C	-30...200 °C -25...95 °C	-20...110 °C	5...125 °C
Location					
Outside	■				
Flow rate		■	■	■	■
TWW		■	■	■	■
Boiler		■	■	■	■
Solar			■		
Data Sheet	Q1811	Q1801	Q1843	Q1845	Q1806

\* 2 additional order numbers are available relating to outside sensor QAC34/101:

AVS13.399/101	RF module including outside sensor QAC34
AVS13.399/201	RF module for outside sensor QAC34; without the outside sensor.

## Accessories

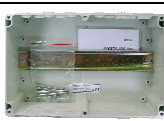



Cable					
					
Product number	<b>AVS82.490/109</b> <b>AVS82.491/109</b>	<b>AVS82.590/109</b>	<b>AVS82.496/109</b>	<b>AVS82.495/101</b>	<b>AGU2.110A/109</b>
Designation	Ribbon cable	Adapter cable	Ribbon cable	Service cable	Bus cable
Length	...490/109: 400 mm ...491/109: 1000 mm	< 3000 mm*	100 mm	3000 mm	840 mm
Protocol	BSB	BSB	BSB	BSB	BSB
Links...	Controller	Controller	Controller	Room unit (QAA7 ..)	BMU LMS1...
With...	Operator unit or extension modules	Operator unit or extension modules	I/O module	operator unit	Operator unit or extension modules

\* Cable between 2 adapters cannot exceed 3 meters for EMC reasons.


Gateways					
					
Product number	<b>OCI345.06/101</b>	<b>OCI364.03/101</b>	<b>AVS71.390/109*</b>	<b>AVS71.393/101*</b>	<b>AVS14.390/101</b>
Designation	LPB clip-in	LPB/OT Gateway	Radio module	RF module BSB	Radio repeater
Links...	RVS21.826	OpenTherm device	Controller	BSB-W (Draft)	BSB-RF (RF)
With...	LPB	LPB	BSB-RF (RF)	BSB-RF (RF)	BSB-RF (RF)
Description	RVS21 controllers is integrated in the LPB topology.	OpenTherm device is integrated in the LPB topology.	RF communication controller/RF participant	RF communication controller/RF participant	RF signal amplification BSB-RF
Installation location	On the controller	Freely placeable on OpenTherm	On the controller	Freely placeable on BSB	Within RF range of the RF participants
Power supply	24 V DC (via RVS)	via OpenTherm bus	5.5 V DC (via RVS)	G+ (11.3...13.2 V)	230 V ~, 50 Hz
Degree of protection	IP 00	IP20	IP40	IP20	IP20
Climatic conditions (operation)	-20...60 °C	0...50 °C	0...50 °C	0...50 °C	0...50 °C
Dimensions (LxWxT)	76 x 55 x 20 mm	54 x 90 x 57 mm	71 x 56 x 67 mm	96 x 96 x 40 mm	90 x 100 x 32 mm
Weight	54 g	76 g	54 g	115 g	112 g 195 g (power supply)
Documentation	Controller manual	CE1Q2905de	CE1U2358en	CE1U2358en	CE1U2358en
Packaging unit	20 pieces	20 pieces	20 pieces	1 pieces	30 pieces

\* RF module (AVS71.390) and RF module BSB (AVS71.393) as alternative only



## Housing, covers, spacer

Wall-mount housing AGS7A.100	
	<ul style="list-style-type: none"> <li>● 1 controller with width 181 mm</li> <li>● 2 controller with width 109 mm</li> <li>● HMI AVS37...</li> </ul>
Blanking cover AVS38.291	
	<ul style="list-style-type: none"> <li>● e.g. with AGS7A.100</li> <li>● Dimensions: 138 x 92 mm</li> </ul>
HMI cover (rear side) AVS92.290	
	<ul style="list-style-type: none"> <li>● For AVS37.x9x (not AVS37.390)</li> <li>● Dimensions: 116 x 86 mm</li> </ul>
Spacer AVS92.280/109	
	<ul style="list-style-type: none"> <li>● For extension module AVS55.19x</li> <li>● For mounting <b>on</b> the basic module (RVS21...)</li> </ul>

## Power section

Power supply AVS16.290	
	<ul style="list-style-type: none"> <li>● Boiler control panel for floor-standing boilers</li> <li>● Is connected using the supplied 5-pin plug to the controller's power input.</li> <li>● Additional information is available in CE1U2358en</li> </ul>

## Demo case

Demo case KF8921.1	
	<ul style="list-style-type: none"> <li>● Demo case for heat pump controller RVS61</li> <li>● Includes, in addition to the room unit QAA75, the RF module AVS71.390, as well as potentiometer for plant simulation.</li> <li>● Case dimensions: 47 x 44 x 20 cm (L x W x D)</li> <li>● Case weight: 8.5 kg</li> </ul>
Demo case KF8900	
	<ul style="list-style-type: none"> <li>● Demo case for heating controller RVS...</li> <li>● Includes, in addition to the room unit QAA75, the RF module AVS71.390, as well as potentiometer for plant simulation.</li> <li>● Case dimensions: 47 x 44 x 20 cm (L x W x D)</li> <li>● Case weight: 8 kg</li> </ul>

## Additional information

**Albatros2 documentation landscape** This product range description is a component of the Albatros2 documentation landscape.

Documentation type	Contents
User guides for Albatros2 controllers [code letter U]	Hardware and parameter description of controllers (see as well Section "Controller [→ 4]", line "User's Guide")
User guides for Albatros2 operator, room, and auxiliary devices [code letter U]	Mounting and operating instructions, parameter description, and technical data in CE1U2358en_xx
Cross-product range basic documents [code letter P]	e.g. "Hydraulic partial diagrams and supplemental functions"
Sensor datasheets [code letter Q]	Technical data and functions (see Section "Sensor [→ 19]", line "Datasheet")
Product inserts [code letters B and G]	Delivered operating and mounting instructions
Environmental declarations [code letter E]	Material product components, environmental compatibility, and compliance with environmental laws (e.g. RoHS)
CE declaration of conformity [code letter T]	Declaration on the compliance with applicable electrical standards.

**Additional support** For questions on the described products, please contact your point-of-contact at the responsible Siemens offices.

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