RESOL®
CONTROL TECHNOLOGY

DeltaSol® BS series

The RESOL controllers for standard solar thermal systems. The DeltaSol® BS series provides a clear operating concept.

The intuitive commissioning menu leads you through the initial configuration in only a few steps.

The system selected is shown on the display, the status of the individual components is indicated by means of flashing codes.

The DeltaSol® BS series is available in 3 versions, depending on the demands. Details concerning the number of the relays as well as additional functions are shown in the technical data.

Customised and OEM versions are available on request. Please contact our sales team.

cTUVus certified!*

RCM compliant according to Australian standards**

VBus.net   RPT

User-friendly and versatile!

DeltaSol® BS series

- Drainback option
- Heat quantity measurement
- Function control
- Commissioning menu
- Unit °C and °F selectable
- HE pump control via adapter

DeltaSol® BS/4, BS Plus

- 3 basic system layouts (DeltaSol® BS/4), 10 basic system layouts (DeltaSol® BS Plus) to choose from
- Tube collector function, thermal disinfection function, time-controlled thermostat function

RESOL DeltaSol® BS
Price bracket A | Article no. BS/2: **115 412 33**
Price bracket A | Article no. BS/4: **115 425 13**

RESOL DeltaSol® BS – Full kit
Incl. 3 Pt1000 sensors (1 x FKP6, 2 x FRP6)
Price bracket A | Article no. BS/2: **115 412 43**
Price bracket A | Article no. BS/4: **115 425 23**

RESOL DeltaSol® BS Plus
Price bracket A | Article no.: **115 422 03**

RESOL DeltaSol® BS Plus – Full kit
Incl. 4 Pt1000 sensors (2 x FKP6, 2 x FRP6)
Price bracket A | Article no.: **115 422 13**

Visit www.resol.de/videos for a product video about this controller

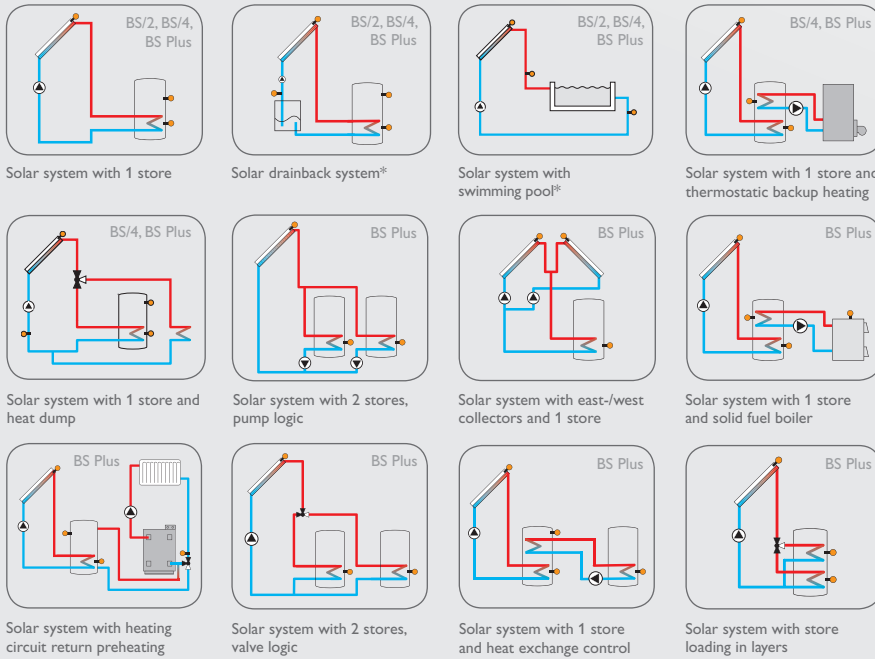* The cTUVus certification confirms that the controller is certified to UL 60730-1:2009 and CSA B60730.1:2002.

**AS/NZS 60335.1:2011+A1+A2+A3+A4

ELECTRICAL CONNECTION

RESOL®
DE-45527 Hattingen
DeltaSol BS/4 V2
Made in Germany

Temp. Sensor Pt1000

CE ⓘ □ IP 20

T4A
100 ... 240 V~
50-60 Hz

CU 72091163 01

R1 | 1 (1) A 100 ... 240 V~
R2 | 1 (1) A 100 ... 240 V~

S1		S2		S3		S4		VBus		⏚			N R2	N R1	N L
1	2	3	4	5	6	7	8	9	10	12	13	14	15 16	17 18	19 20

Example *DeltaSol® BS/4*

EXAMPLES

BS/2, BS/4, BS Plus

Solar system with 1 store

BS/2, BS/4, BS Plus

Solar drainback system*

BS/2, BS/4, BS Plus

Solar system with swimming pool*

BS/4, BS Plus

Solar system with 1 store and thermostatic backup heating

BS/4, BS Plus

Solar system with 1 store and heat dump

BS Plus

Solar system with 2 stores, pump logic

BS Plus

Solar system with east-/west collectors and 1 store

BS Plus

Solar system with 1 store and solid fuel boiler

BS Plus

Solar system with heating circuit return preheating

BS Plus

Solar system with 2 stores, valve logic

BS Plus

Solar system with 1 store and heat exchange control

BS Plus

Solar system with store loading in layers

* Application examples

ACCESSORIES

RESOL Moisture-proof housing (IP 66/67)

Moisture-proof housing for controller installation outdoors or in highly humid locations (without controller)

Price bracket B | Article no.: **290 028 70**

Auxiliary relay HR230

Single-phase, suitable for all RESOL controllers

Price bracket A | Article no.: **280 002 60**

RESOL PSW Basic

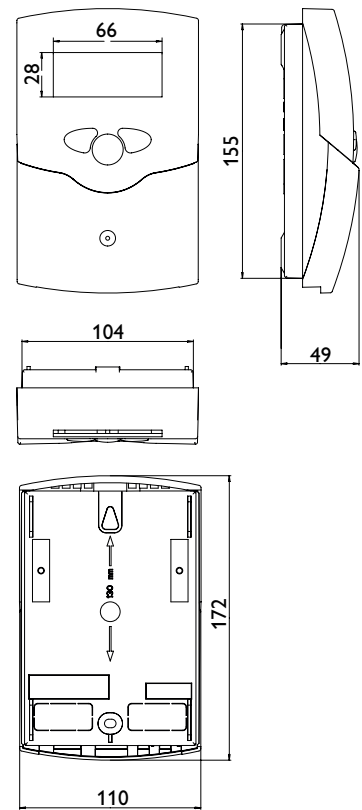Pump signal converter

Price bracket B | Article no.: **180 010 50**

RESOL VBus®/USB interface adapter

PC connection kit for RESOL controllers with VBus® incl. Service CD

Price bracket B | Article no.: **180 008 50**

RESOL SP10

Sensor overvoltage protection

Price bracket A | Article no.: **180 110 70**

RESOL SD3 Smart Display

Display module for the living area with 3 displays for collector and store temperature as well as for heat quantity

Price bracket A | Article no.: **180 004 90**

TECHNICAL DATA

66
28
155
104
49
172
110

Inputs: 4 Pt1000 temperature sensors

Outputs: 1 semiconductor relay (BS/2), 2 semiconductor relays (BS/4, BS Plus)

Switching capacity:
1 (1) A 240 V~ (semiconductor relay)

Total switching capacity:
1 A 240 V~ (BS/2),
2 A 240 V~ (BS/4, BS Plus)

Power supply: 100 ... 240 V~ (50 ... 60 Hz)

Supply connection: type Y attachment

Standby:
0.45 W (BS/2), 0.74 W (BS/4), 0.38 W (BS Plus)

Temperature controls class: I (BS/4, BS Plus)

Energy efficiency contribution: 1 % (BS/4, BS Plus)

Mode of operation: type 1.C.Y action

Rated impulse voltage: 2.5 kV

Data interface: RESOL VBus®

VBus® current supply: 35 mA

Functions: function control, operating hours counter, tube collector function (BS/4, BS Plus), heat quantity measurement and pump speed control

Housing: plastic, PC-ABS and PMMA

Mounting: wall mounting, mounting into patch panels is possible

Indication/Display: System-Monitoring-Display for system visualisation, 16-segment and 7-segment display, 8 symbols for indication of system status and operating control LED

Operation: 3 push buttons

Ingress protection: IP 20/EN 60529

Protection class: II

Ambient temperature: 0 ... 40 °C

Pollution degree: 2

Dimensions: 172 x 110 x 49 mm

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