

## DeltaSol® BS Plus



rosenthal design 

cTUVus certified!

The RESOL DeltaSol® BS Plus system controller is pre-programmed for different systems and is equipped with an energy metering function, a realtime clock and the RESOL VBus®.

The multi-functional and illuminated display enables system-monitoring for intuitive and safe controller configuration and comprehensive visualization of the system status. Simple pictograms provide information on function and operating status of the controller and the system.

This version is equipped with 4 inputs for Pt1000 temperature sensors, tank temperature limitation and manual operation mode. The central element is the 3-key-field below the display.

### System survey:

- Arr 1 : Standard solar system
- Arr 2 : Solar system with heat exchange
- Arr 3 : Solar system with back-up heating
- Arr 4 : Solar system with multi level tank
- Arr 5 : 2-tank solar system with valve logic
- Arr 6 : 2-tank solar system with pump logic
- Arr 7 : Solar system with 2 collectors and 1 tank
- Arr 8 : Solar system with back-up heating by solid fuel boiler
- Arr 9 : Solar system with heating circuit return preheating
- Arr 10 : Solar system with heat dump function

### RESOL DeltaSol® BS Plus

System controller for simple solar and heating systems

Article no.: 115 456 27

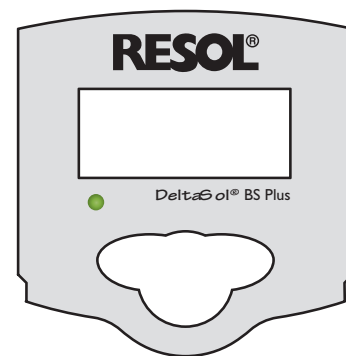
### RESOL DeltaSol® BS Plus - Full kit

System controller for simple solar and heating systems  
incl. 4 Pt1000 sensors (2 × FKP6, 2 × FRP6)

Article no.: 115 456 37

- Thermostat function
- Illuminated system-monitoring-display
- Up to 4 Pt1000 temperature sensors
- 2 relays for pump speed control
- Drainback option including booster function
- Heat dump system layout
- 10 system layouts to choose from
- Energy metering
- Function control
- RESOL VBus®
- Programming and remote control of the system via RESOL ServiceCenter software possible

Unit °F and °C selectable!



The controller can be branded with your own logo.  
Please contact our sales team.

### Accessory

#### RESOL SP10

Overvoltage protection device placed in housing with outstanding design, suitable for mounting outdoors. We generally recommend installing the overvoltage protection in order to avoid overvoltage damage at collector sensors, e.g. caused by local lightning storms.



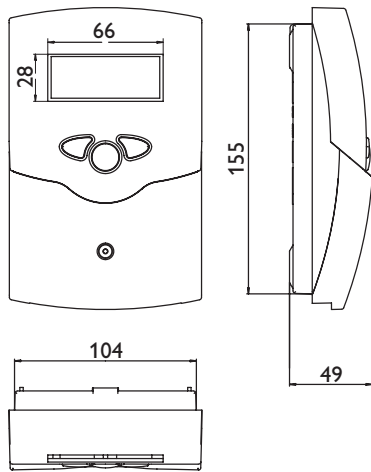
#### RESOL SP10

Sensor overvoltage protection

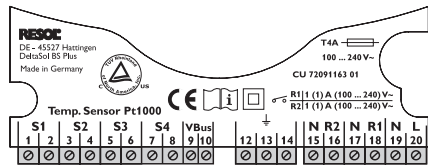
Article no.: 180 110 70

For an overview of accessories see page 46-47!

## Technical data



## Electrical connection



**Housing:** plastic, PC-ABS and PMMA

**Protection type:** IP 20/EN 60529

**Ambient temperature:** 0 ... 40 °C/32...104 °F

**Dimensions:** 172 × 110 × 49 mm/6.77" × 4.33" × 1.92"

**Installation:** wall mounting, mounting into patch panels is possible

**Display:** system-monitoring for visualization of the systems, 16-segment- and 7-segment display, 8 symbols for indication of the system status and operating control lamp

**Operation:**

by 3 push buttons at the front of the housing

**Functions:** differential temperature controller with adjustable system functions. Operating hours counter for the solar pump, evacuated tube collector function, thermostat function, pump speed control, energy metering, time-controlled thermostat function, drainback option and heat dump function

**Inputs:** 4 Pt1000 temperature sensors

**Output:** 2 semiconductor relays

**Bus:** RESOL VBus®

**Power supply:** 100 ... 240 V~

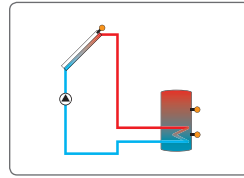
**Power consumption:** < 1W (standby)

**Switching capacities:**

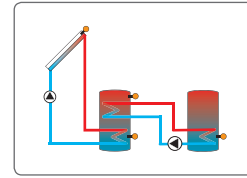
1 (1) A 100 ... 240 V~ (semiconductor relay)

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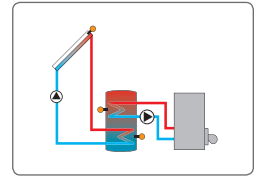
## Examples



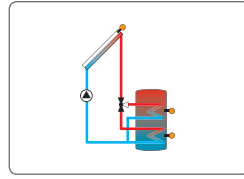
Solar system with 1 tank



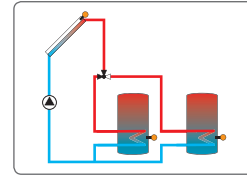
Solar system with 1 tank and heat exchange controller



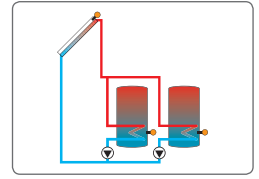
Solar system with 1 tank and thermostatic backup heating



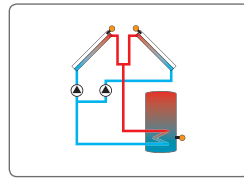
Solar system with tank loading in layers



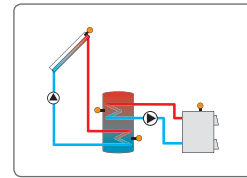
Solar system with 2 tanks, valve logic



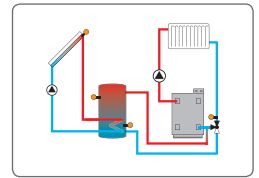
Solar system with 2 tanks, pump logic



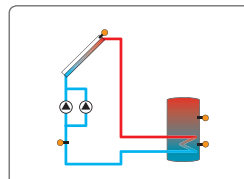
Solar system with east-/west collectors and 1 tank



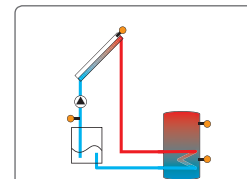
Solar system with 1 tank and solid fuel boiler



Solar system with heating circuit return preheating



Solar system with booster



Solar drainback system



Easy operation and control



Easy mounting...



... adjustment ...



... and service



Illuminated system-monitoring display