



rosenthal design 



DeltaSol® SLL

The RESOL DeltaSol® SLL is the smallest controller of the SL series. Its equipment is optimised for small and medium-sized solar thermal and heating systems, 10 pre-configured basic systems are available. The DeltaSol® SLL is also the first controller of its category to offer the automatic function control according to the VDI 2169 directive.

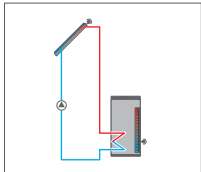
Additionally, it is equipped with a potential-free extra-low voltage relay for backup heating demand and a V40 flowmeter input for heat quantity measurement.

Versatile and easy to operate!

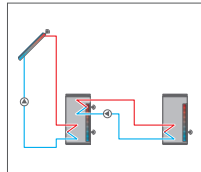
- Microbuttons for quick access to the manual mode and the holiday function
- 3 relay outputs (incl. 1 potential-free extra-low voltage relay)
- 4 inputs for Pt1000, Pt500 or KTY temperature sensors
- 1 V40 impulse input
- 2 PWM outputs for the speed control of high-efficiency pumps
- 10 basic system layouts to choose from
- Automatic function control according to VDI 2169
- Heat pump demand (optional)

Article no.	Article	Price bracket
115 431 53	DeltaSol® SLL – Solar controller	A
115 431 63	DeltaSol® SLL – Full kit » incl. 3 Pt1000 sensors (1 x FKP6, 2 x FRP6)	A

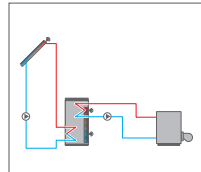
EXAMPLES



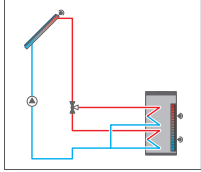
Solar system with 1 store



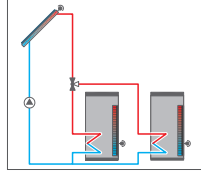
Solar system with 1 store and heat exchange control



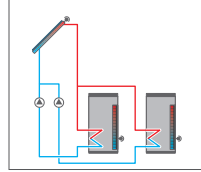
Solar system with 1 store and thermostatic backup heating



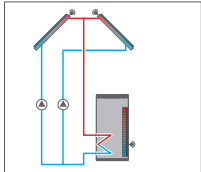
Solar system with store loading in layers



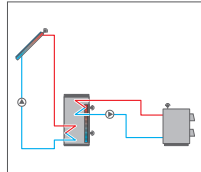
Solar system with 2 stores, valve logic



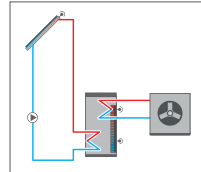
Solar system with 2 stores, pump logic



Solar system with east-/west collectors and 1 store



Solar system with 1 store and solid fuel boiler



Solar system with 1 store and backup heating with heat pump

TECHNICAL DATA

Inputs: 4 inputs for Pt1000, Pt500 or KTY temperature sensors, 1 V40 impulse input

Outputs: 2 semiconductor relays, 1 potential-free extra-low voltage relay, 2 PWM outputs

PWM frequency: 1000 Hz

PWM voltage: 10.5 V

Switching capacity:

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

1 (1) A 30 V== (potential-free relay)

Total switching capacity: 2 A 240 V~

Power supply: 100–240 V~ (50–60 Hz)

Supply connection: type X attachment

Standby: 0.66 W

Temperature controls class: I

Energy efficiency contribution: 1 %

Mode of operation: type 1.B.C.Y action

Rated impulse voltage: 2.5 kV

Data interface: VBus®

VBus® current supply: 60 mA

Functions: operating hours counter, tube collector function, thermostat function, pump speed control, heat quantity measurement, adjustable system parameters and optional functions (menu-driven), balance and diagnostics function, function control according to VDI 2169

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-display, 8 symbols for indication of the system status, operating control LED (Lightwheel®)

Operation: 4 buttons and 1 adjustment dial (Lightwheel®)

Ingress protection: IP 20/EN 60529

Protection class: I

Ambient temperature: 0 ... 40 °C

Degree of pollution: 2

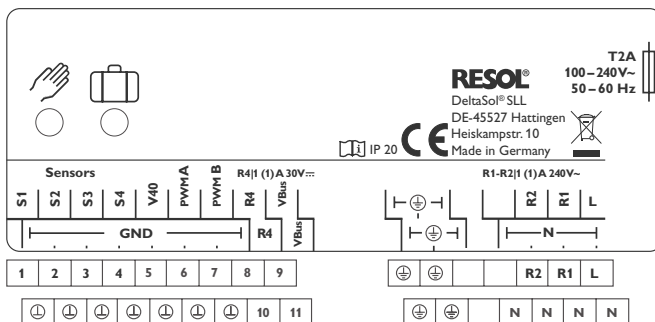
Relative humidity: 10 ... 90 %

Fuse: T2A

Maximum altitude: 2000 m above MSL


Dimensions: 110 x 166 x 47 mm

ELECTRICAL CONNECTION



ACCESSORIES

KM2 Communication module




For remote access to the controller via VBus.net

V40



V40 flowmeter in different versions

SP10




Sensor overvoltage protection

AM1



Alarm module for signalling system failures

Calorimeter extension kits



Calorimeter extension kits (consisting of 2 x FRP30, 1 x V40 flowmeter)