Status: Solar
▶ System   active
  Loading   active ››
  back

DeltaSol® BX Plus

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The RESOL *DeltaSol®* BX Plus is a system controller for multi-store solar and heating systems. The intuitive commissioning menu leads you through the system configuration by requiring the most important adjustments directly after connecting the controller.

For an optimum overview, all sensor and relay allocations are listed in the service menu.

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

rosenthal design r

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

HE pump control   VBus.net   RPT   SD

More possibilities!

- 8 sensor inputs and 5 relay outputs

- Data logging, storing, easy transfer of controller adjustments prepared and firmware updates via SD card

- Pre-programmed optional functions such as drainback option, time-controlled thermostat function, thermal disinfection

- Up to 2 extension modules via RESOL VBus® connectable (21 sensors and 15 relays in total)

- 2 inputs for digital Grundfos Direct Sensors™

- 2 PWM outputs for speed control of high-efficiency pumps

- Automatic function control according to VDI 2169: Flow rate and pressure monitoring, warnings for too high ΔT values, interchanged flow and return pipes and night circulation

- Modulating heating control with 0-10 V boiler control (with EM Extension Module)

RESOL *DeltaSol®* BX Plus
Price bracket A | Article no.: **115 001 33**

RESOL *DeltaSol®* BX Plus – Full kit
Incl. 5 Pt1000 sensors (2 x FKP6, 3 x FRP6)
Price bracket A | Article no.: **115 001 43**

An SD card as well as a PWM / 0-10 V adapter cable are included with the controller.

Menu languages:

ELECTRICAL CONNECTION
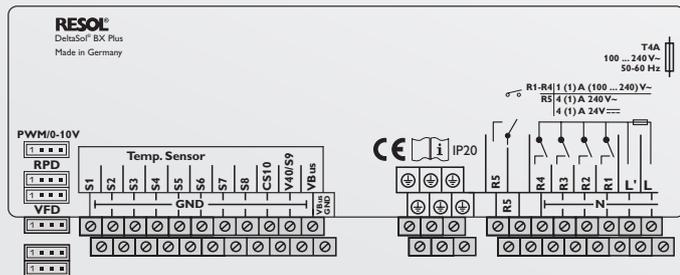
EXAMPLES
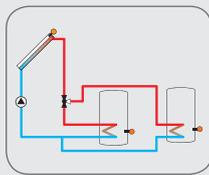
2-store system with valve logic, 1 pump, 3 sensors and 3-port valve
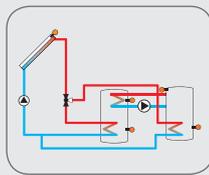
2-store solar system with valve logic and heat exchange control
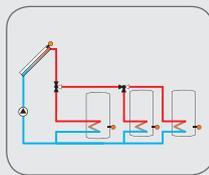
Solar system with 3 stores, 3-port-valve logic
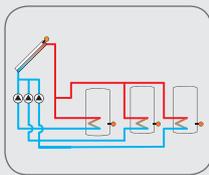
3-store solar system with pump logic and heat exchange control
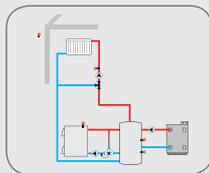
1 mixed heating circuit with solid fuel boiler and backup heating (demand)
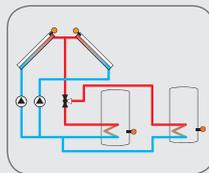
Solar system with east-/west collectors and 2 stores (valve logic)
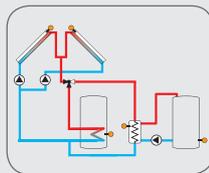
Solar system with east-/west collectors, 2 stores and external heat exchanger, 3-port valve control
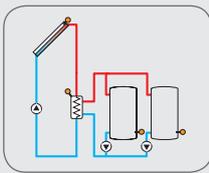
Solar system with 2 stores and external heat exchanger, pump logic

ACCESSORIES

RESOL DL2 Datalogger

For visualisation via VBus.net, incl. SD card and network cable, mains adapter and VBus® cable pre-connected (see page 67)

Price bracket A | Article no.: **180 007 10**

RESOL DL3 Datalogger

For visualisation via VBus.net, incl. SD card, mains adapter, network and VBus® cable (see page 68)

Price bracket A | Article no.: **180 009 90**

VFD / RPD Grundfos Direct Sensor™

Digital sensors in different versions (see page 90)

RESOL EM

Sensor and relay Extension module with 5 outputs and 6 inputs (see page 33)

Price bracket A | Article no.: **145 440 80**

RESOL SD3 Smart Display

Display module for the living area with 3 displays for collector and store temperature as well as for heat quantity (see page 70)

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

RESOL SP10
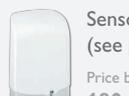
Sensor overvoltage protection (see page 92)

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

TECHNICAL DATA
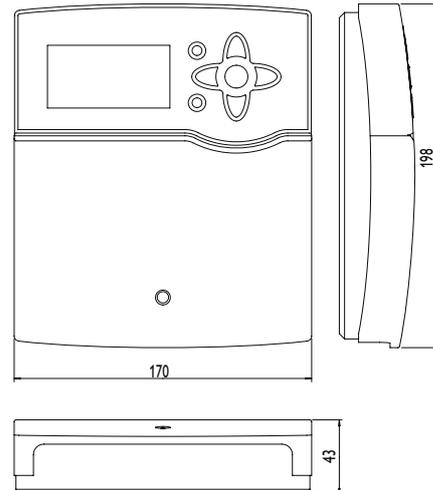
Inputs: 8 (9) inputs for Pt1000, Pt500 or KTY temperature sensors, 1 V40 impulse input, inputs for 2 digital Grundfos Direct Sensors™*, 1 input for a CS10 irradiation sensor

Outputs: 4 semiconductor relays, 1 potential-free relay, 2 PWM outputs

PWM frequency: 512 Hz

PWM voltage: 11.0 V

Switching capacity:
1 (1) A 240 V~ (semiconductor relay)
4 (1) A 24 V= / 240 V~ (potential-free relay)

Total switching capacity: 4 A 240 V~

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

Supply connection: type Y attachment

Standby: 0.76 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: RESOL VBus®, SD card slot

VBus® current supply: 60 mA

Functions: ΔT control, pump speed control, heat quantity measurement, operating hours counter for the solar pump, tube collector function, thermostat function, store loading in layers, priority logic, drainback option, booster function, heat dump function, thermal disinfection function, PWM pump control, function control according to VDI 2169

Housing: plastic, PC-ABS and PMMA

Mounting: wall mounting, mounting into patch panels is possible

Indication / Display: full graphic display, operating control LED (directional pad) and background illumination

Operation: 7 push buttons

Ingress protection: IP 20 / EN 60529

Protection class: I

Ambient temperature: 0 ... 40 °C

Pollution degree: 2

Dimensions: 198 x 170 x 43 mm

*For the digital inputs, the following sensor combinations are possible:
- 1 x RPD, 1 x VFD
- 2 x VFD, but with different measuring ranges only