DeltaSol® BX Plus

RESOL®
Control technology

SD incl.

More possibilities!

Automatic function control according to VDI 2169 directive!

HE pump control

The **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.

- Data logging, storing and firmware updates via SD memory 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 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

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**

RESOL *DeltaSol®* BX Plus – Full kit incl. Smart Display SD3
Incl. SD3 and 5 Pt1000 sensors (2 x FKP6, 3 x FRP6)
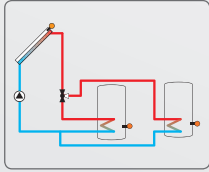Price bracket A | Article no.: **115 001 53**

The PWM/0-10 V adapter cable is included with the controller.

Customised and OEM versions are available on request. Please contact our sales team.
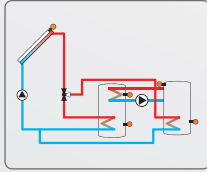
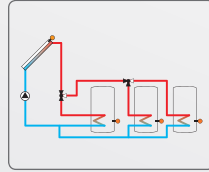Visit www.resol.de/videos for a product video about this controller
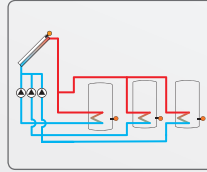
Examples

2-store system with valve logic, 1 pump, 3 sensors and 3-port valve
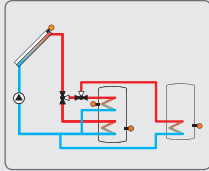

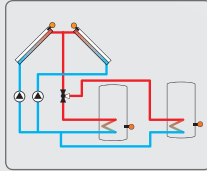2-store solar system with valve logic and heat exchange control

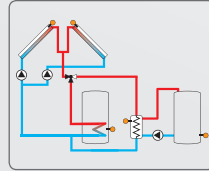3-store solar system with valve logic and heat exchange control

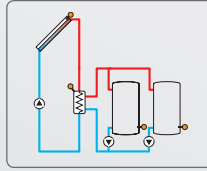3-store solar system with pump logic and heat exchange control

Solar system with store loading in layers and 2 stores

Solar system with east-/west collectors and 2 stores (valve logic)
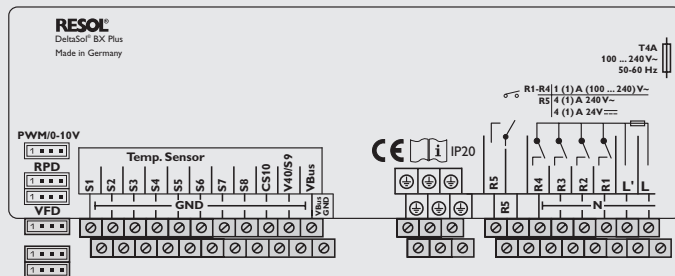

Solar system with east-/west collectors, 2 stores and external heat exchanger, 3-way valve control

Solar system with 2 stores and external heat exchanger, pump control

Electrical connection

Accessories

RESOL EM
Sensor and relay Extension Module with 5 outputs and 6 inputs
Price bracket A |Article no.: **145 440 80**

RESOL DL2 Datalogger
Datalogger incl. RESOL ServiceCenter Software full version ready to plug in with mains adapter and VBus®
Price bracket A |Article no.: **180 007 10**

RESOL DL3 Datalogger
Datalogger incl. RESOL ServiceCenter Software full version ready to plug in with mains adapter, VBus® and SD card
Price bracket A |Article no.: **180 009 90**

VFD / RPD Grundfos Direct Sensor™
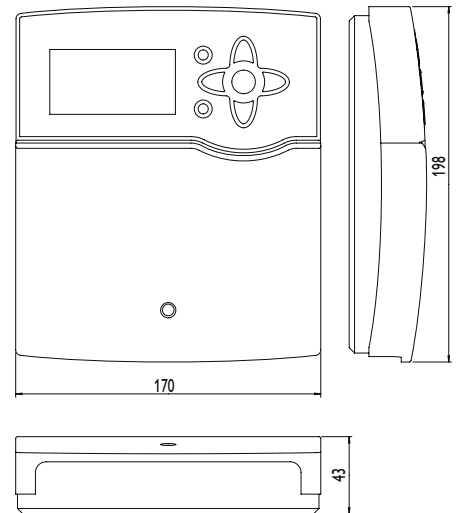Digital sensors in different versions

RESOL AM1
Alarm module for signalling system failures
Price bracket B |Article no.: **180 008 70**

RESOL SP10
Sensor overvoltage protection
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

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

Power consumption: < 1 W (standby)

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: ∆T 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, drain-back option, booster function, heat dump function, thermal disinfection function, PWM pump control, function control

Housing: plastic, PC-ABS and PMMA

Mounting: wall mounting, mounting into patch panels is possible

Indication / Display: Full graphic display, control lamp (directional pad) and background illumination

Operation: 7 push buttons at the front

Ingress protection: IP 20 / EN 60529

Protection class: I

Ambient temperature: 0 ... 40 °C

Pollution degree: 2

Dimensions: 198 x 170 x 43 mm