

DeltaSol® BX Plus



More
possibilities!

Automatic function control
according to VDI 2169 directive!

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**

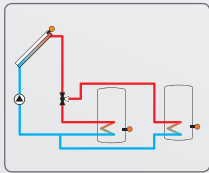
An SD card as well as a PWM/0-10V adapter cable are included with the controller.

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

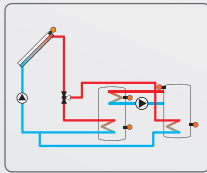


Visit www.resol.de/videos for a product video about this controller

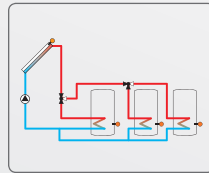
Examples



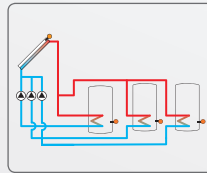
2-store system with valve logic, 1 pump, 3 sensors and 3-port valve



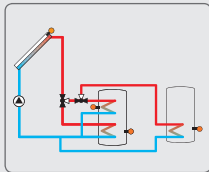
2-store solar system with valve logic and heat exchange control



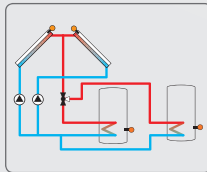
3-store solar system with valve logic and heat exchange control



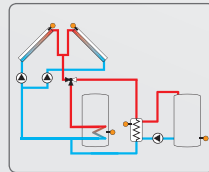
3-store solar system with pump logic and heat exchange control



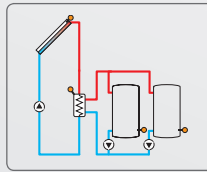
Solar system with store loading in layers and 2 stores



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

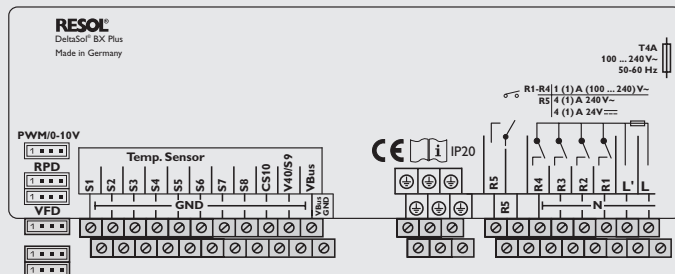


Solar system with east-west collectors, 2 stores and external heat exchanger, 3-way valve control



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

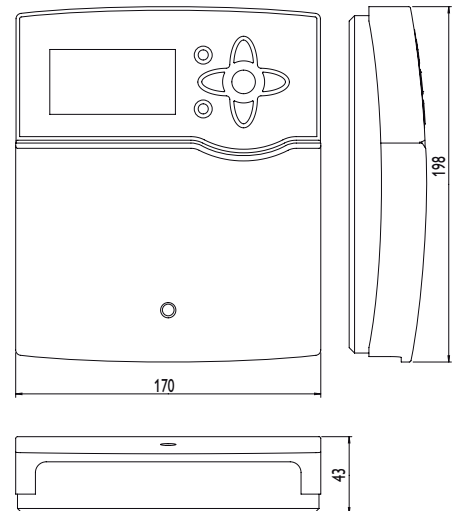


RESOL AM1
Alarm module for signalling system failures
Price bracket B | Article no.: **180 008 70**



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: 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, 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