

DeltaSol® BX Plus



rosenthal design 

The system controller is equipped with 5 relay outputs and 9 sensor inputs, connections for digital Grundfos Direct Sensors™, and PWM outputs for speed control of energy-saving high-efficiency pumps. With the integrated SD card slot, logging system data and updating the firmware is possible.

Additional accessories as well as up to 2 EM extension modules, extending the controller by 6 sensor inputs and 5 relay outputs each, can be connected via the RESOL VBus®.

- Extralarge graphic display
- 2 inputs for digital Grundfos Direct Sensors™
- 5 relay outputs, 8 sensor inputs for Pt1000, Pt500 or KTY temperature sensors, 1 impulse input V40
- 2 PWM outputs for speed control of high-efficiency pumps
- Data logging, storing and firmware updates via SD memory card
- Pre-programmed optional functions
- Up to 2 Extension Modules via RESOL VBus® connectable (21 sensors and 15 relays in total)
- Drainback function
- Time-controlled thermostat function
- Thermal disinfection function
- RESOL VBus®

More possibilities!

Automatic function control according to VDI 2169 directive!

RESOL DeltaSol® BX Plus

Article no.: **115 001 37**

RESOL DeltaSol® BX Plus – Full kit

Incl. 4 Pt1000 sensors (2 x FKP6, 2 x FRP6)

Article no.: **115 001 47**

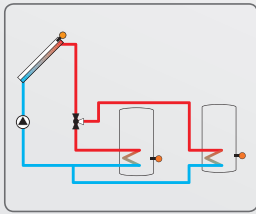
An SD card as well as a PWM/0-10 V adapter cable are included with the controller.

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

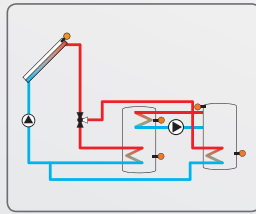


Visit www.resol.de/videos for a product video about this controller

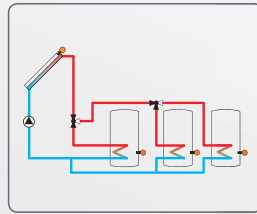
Examples



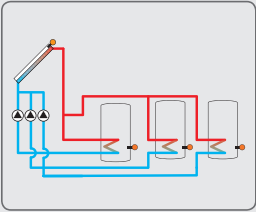
2-tank system with valve logic, 1 pump, 3 sensors and 3-port valve



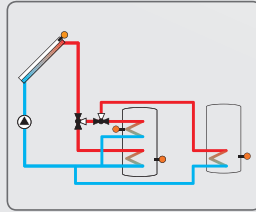
2-tank solar system with valve logic and heat exchange control



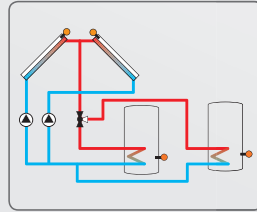
3-tank solar system with valve logic and heat exchange control



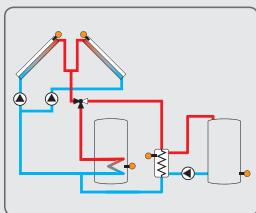
3-tank solar system with pump logic and heat exchange control



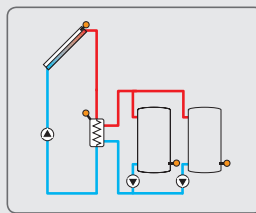
Solar system with tank loading in layers and 2 tanks



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

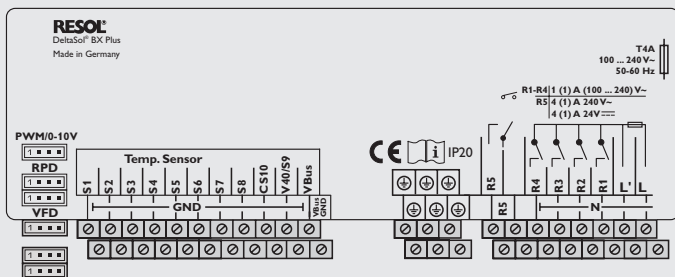


Solar system with east-/west collectors, 2 tanks and external heat exchanger; 3-port valve control



Solar system with 2 tanks and external heat exchanger; pump control

Electrical connection



Accessories



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

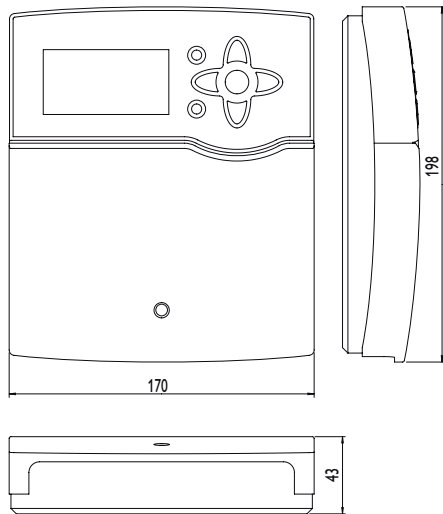


RESOL VBus® / USB interface adapter
PC connection kit for RESOL controllers with VBus® incl. RESOL ServiceCenter Software
Article no.: **180 008 50**



RESOL SP10
Sensor overvoltage protection
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 dry-contact relay, 2 PWM outputs

Switching capacity:

1 (1) A 240 V~ (semiconductor relay)
4 (1) A 24 V~ / 240 V~ (dry-contact 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, energy metering, operating hours counter for the solar pump, evacuated tube collector function, thermostat function, vertical tank loading, priority logic, drainback option, booster function, heat dissipation function, thermal disinfection function, PWM pump control, functionality 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 / 32 ... 104 °F

Pollution degree: 2

Dimensions: 198 x 170 x 43 mm / 6.69" x 7.79" x 1.69"

Do you have any further questions? We have the answers:

© RESOL – Elektronische Regelungen GmbH ■ info@resol.de ■ www.resol.de