

DeltaSol® BX Plus



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.









More possibilities!

- 8 sensor inputs and 5 relay outputs
- Data logging, transfer of adjustments 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 inputs for digital Grundfos Direct SensorsTM
- 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
- VBus® menu for configuring remote displays, e. g. SDFK

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

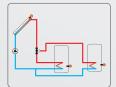
An SD card as well as a PWM/0-10V adapter cable are included with the controller.

Menu languages:

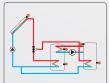




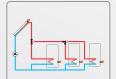
Examples



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



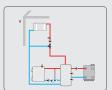
valve logic and heat exchange



Solar system with 3 stores, 3-port-valve logic



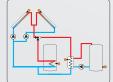
3-store solar system with pump logic and heat exchange



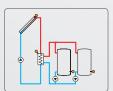
1 mixed heating circuit with solid fuel boiler and backup heating (demand)



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

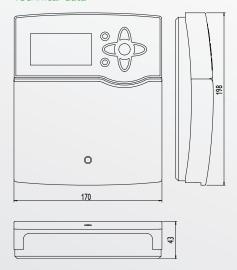


Solar system with east-/west collectors, 2 stores and external heat exchanger, 3-way valve control

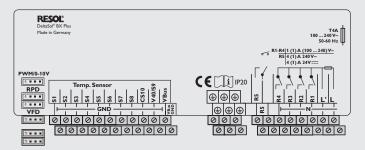


and external heat exchanger, pump logic

Technical data



Electrical connection



Accessories

RESOL DL2 Datalogger



For visualisation via VBus.net, incl. SD card and network cable, mains adapter and VBus® cable pre-connected

Price bracket A | Article no.: 180 007 10

RESOL EM



Sensor and relay Extension module with 5 outputs and 6 inputs

Price bracket A | Article no.: 145 440 80



RESOL Smart Display SD3/SDFK

RESOL DL3 Datalogger



For visualisation via VBus.net, incl. SD card, mains adapter, network and VBus® cable

Price bracket A | Article no.: 180 009 90



Price bracket A | Article no. SD3: 180 004 90 Price bracket A | Article no. SDFK: 180 010 80

VFD/RPD Grundfos Direct Sensor™



Digital sensors in different versions

RESOL SP10



Sensor overvoltage protection

Price bracket A | Article no.: 180 110 70

Inputs: 8 (9) inputs for Pt1000, Pt500 or KTY temperature sensors, 1 V40 impulse input, inputs for 2 digital Grundfos Direct Sensors $^{\text{TM}^*}$, 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 $V\sim$ (potential-free relay)

Total switching capacity: $4 A 240 V_{\sim}$

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

Supply connection: type Y attachment

Standby: 0.76 W

Temperature controls class: |

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: ∆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, drainback 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, operating control LED (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

*For the digital inputs, the following sensor combinations are

- 1 x RPD, 1 x VFD
- $2 \times VFD$, but with different measuring ranges only