

Multifunction controllers





DeltaSol[®] MX Plus

The DeltaSol[®] MX Plus combines the functional range of the DeltaSol[®] MX with an integrated Web server. Configuration, function control and access to VBus.net can be carried out easily and conveniently on any mobile device via a Web interface.

Interfaces such as LAN and Modbus RTU (optional) as well as WLAN functionality and a WLAN access point offer many connectivity options.

The network professional

- 15 relay outputs and 15 inputs for Pt1000, Pt500 or KTY temperature sensors
- Up to 5 extension modules via VBus[®] (45 sensors and 40 relays in total)
- Inputs for analogue and digital Grundfos Direct Sensors[™] as well as for FRH and FRHd humidity sensors
- Integrated control of up to 4 high-efficiency pumps via PWM outputs
- Cooling over the heating circuit with condensation detection
- Dew point calculation by means of the FRH(d) humidity sensor to avoid condensation

- Remote access to the heating circuits via the Web interface, room control unit(s) or the VBus®Touch HC App
- Integrated Web server for configuration and function control
- LAN interface, WLAN functionality, WLAN access point and optional Modbus RTU interface
- Easy access to VBus.net via the Web interface
- Operation via any mobile device
- Heat pump demand (optional)

Article no.	Article	Price bracket
115 993 03	DeltaSol® MX Plus – System controller	А
115 993 13	DeltaSol® MX Plus – Full kit » incl. 6 Pt1000 sensors (2 x FKP6, 4 x FRP6)	А



Solar system with combined store, external heat exchanger, weather-compensated heating circuit, return preheating and backup heating



Solar system with 2 stores, circulation pump control, heat exchange control and weather-compensated heating circuit



Solar system with store, swimming pool and backup heating over gas- and solid fuel boiler

ELECTRICAL CONNECTION



Solar system with external heat exchanger, store loading in layers and backup heating by solid fuel boiler



Solar system with combined store and swimming pool, backup heating, heating circuit loading and return preheating



Solar system with 2 stores and 2 weather-compensated heating circuits for heating or cooling application of a heat pump as well as dew point calculation by means of the FRH(d) humidity sensor



TECHNICAL DATA

Inputs: 12 Pt1000, Pt500 or KTY temperature sensor inputs (can optionally be used for remote controls, operating mode switches or potential-free switches), 3 impulse inputs for V40 flowmeters (can optionally be used for Pt1000, Pt500 or KTY temperature sensors, remote controls, operating mode switches or potential-free switches), 1 frequency input, 1 CS10 solar cell, 2 analogue inputs for VFS/RPS Grundfos Direct Sensors[™] or FRH humidity sensors, 2 digital inputs* for VFD/RPD Grundfos Direct Sensors™ or FRHd humidity sensors Outputs: 14 relays, 13 of them semiconductor relays for pump speed control, 1 potential-free relay and 4 PWM outputs (switchable to 0-10 V signal outputs) PWM frequency: 512 Hz PWM voltage: 10.5 V Switching capacity: 1 (1) A 240 V~ (semiconductor relay) 4 (2) A 24 V = /240 V~ (potential-free relay) Total switching capacity: 6.3 A 240 V~ **Power supply:** 100–240 V~ (50–60 Hz) **Supply connection:** type X attachment Standby: 0.84 W Temperature controls class: VIII Energy efficiency contribution: 5 % Mode of operation: type 1.B.C.Y action Rated impulse voltage: 2.5 kV Data interface: VBus®, SD card slot VBus[®] current supply: 35 mA Functions: 7 integrated calorimeters and control of weather-compensated heating circuits. Adjustable system parameters and add-on options (menu-driven), balance and diagnostics functions, 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 buttons Ingress protection: IP 20/EN 60529 Protection class:

Ambient temperature: 0... 40 °C Degree of pollution: 2 Relative humidity: 10... 90 % Fuse: T6.3A Maximum altitude: 2000 m above MSL

Dimensions: 253 x 200 x 47 mm

* For the inputs Gd1 and Gd2, the following sensor combinations are possible: 1 x RPD, 1 x VFD / 2 x VFD, but with different measuring ranges only / 1 x VFD, 1 x FRHd / 1 x RPD, 1 x FRHd

ACCESSORIES

