

## DeltaSol® MX



The all-rounder

# Certified for the North American market!

The cLCus certification confirms that the controller is certified to UL 60730-2-9 and CSA - E60730-2-9-01.

The RESOL DeltaSol® MX is a system controller of the latest generation and offers almost boundless possibilities in planning and controlling solar thermal systems. It is equipped with 14 relay outputs and 4 PWM outputs for the speed control of energy-saving high-efficiency pumps. Additionally, the controller has three impulse inputs as well as a range of different sensor inputs. Up to 5 EM Extension Modules can be connected via the RESOL VBus®.

The integrated SD memory card slot enables an easy datalogging to an SD memory card and a quick, effortless transfer of logged data to a PC. Additionally, firmware updates can be run and controller settings can be saved on and transferred from an SD card. The large full graphic display allows the direct display of balance and progression diagrams.

Pre-defined functions allow easier setup of the system; functional additions such as a drainback function extend the range of applications.

RESOL DeltaSol® MX
Article no.: 115 992 07

RESOL DeltaSol® MX – Full kit Incl. 6 Pt1000 sensors (2 x FKP6, 4 x FRP6) Article no: 115 992 17

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

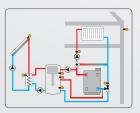


Visit www.resol.de/videos for a product video about this controller

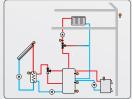
## Unit °F and °C selectable!

- Full graphic display
- 14 relay outputs and 15 sensor inputs → See Page 2 for breakout of inputs and outputs
- Inputs for Grundfos Direct Sensors<sup>TM</sup>
- Speed control of standard and high-efficiency pumps
- Data logging, storing and firmware updates via SD memory card
- Drainback function
- RESOL VBus®
- Energy-efficient switching-mode power supply

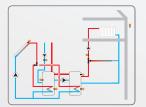
## **Examples**



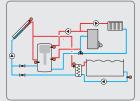
Solar system with combined tank, external heat exchanger, weather-compensated heating circuit, return temperature offset and backup heating



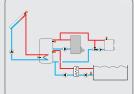
Solar system with external heat exchanger and backup heating by solid fuel boiler



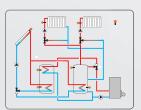
Solar system with 2 tanks, circulation pump control, heat exchange control and weather-compensated heating circuit



Solar system with combined tank and swimming pool, backup heating, heating circuit loading and return temperature offset

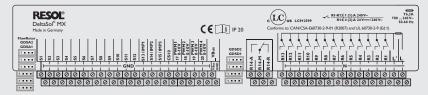


Solar system with tank, swimming pool and backup heating over gas- and solid fuel boiler



Solar system with 2 tanks, backup heating and 2 weather-compensated heating circuits

#### **Electrical connection**



## **Accessories**



RESOL EM

Sensor and relay Extension Module with 5 outputs and 6 inputs

Article no.: 145 440 80



RESOL AM1

Alarm module for signaling system failures

Article no.: 180 008 70



RESOL VBus®/USB interface adapter

PC connection kit for RESOL controllers with VBus® incl.

RESOL ServiceCenter Software

Article no.: 180 008 50

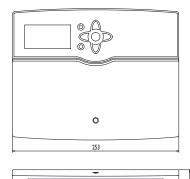


## **RESOL SP10**

Sensor overvoltage protection

Article no.: 180 110 70

### **Technical data**







**Outputs:** 13 semiconductor relays, 1 dry-contact relay and 4 PWM outputs (convertible to 0-10V signal outputs)

## **Switching capacity:**

1 (1) A 240 V~ (semiconductor relay)

4 (2) A 24 V= /240 V~ (dry contact relay)

Total switching capacity:  $6.3 \text{ A} 240 \text{ V}{\sim}$ 

Power supply: 100 ... 240  $V\sim$  (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: 35 mA

Functions: 7 integrated energy metering modules and control of 2 weather-compensated heating circuits. Adjustable system parameters and add-on options (menu-driven), balance and diagnostics functions, functionality control

Housing: plastic, PC-ABS and PMMA

**Mounting:** wall mounting, mounting into patch panels is possible

Indication/Display: full graphic display

Operation: 7 push buttons at the front

Ingress protection: IP 20/EN 60529

Protection class: |

Ambient temperature: 0 ... 40 °C/32...104 °F

Pollution degree: 2

**Dimensions:** 253 × 200 × 47 mm / 10.1" × 7.9" × 1.7"