

Operating concept

Pre-programmed optional functions facilitate parameterisation:

Drainback	
Filling time	5 min
Stab. time	2.0 min
Initialis.	60 s
☒ Booster	
Relay	R7
☒ Drain Impulse	
Delay	3 min
Duration	10 s

Heat exchange	
Relay	R4
Sen. Source	S4
Sen. Sink	S5
ΔTon	6.0 K
ΔToff	4.0 K
ΔTset	10.0 K
Min speed	30 %
Tmax	60 °C
Tmin	10 °C
Timer	>>

Th. Disinfection	
Demand	Dem.1
☒ Circulation pump	
Relay	R8
Sensor	S6
Interval	1d0h
Temperature	60 °C
Duration	1h
☒ Start. time	
Start. time	20:00
Hyst. off	5 K
Hyst. on	2 K

Main menu	
Solar	
Arrangement	
Heating	
HQM	
Basic settings	

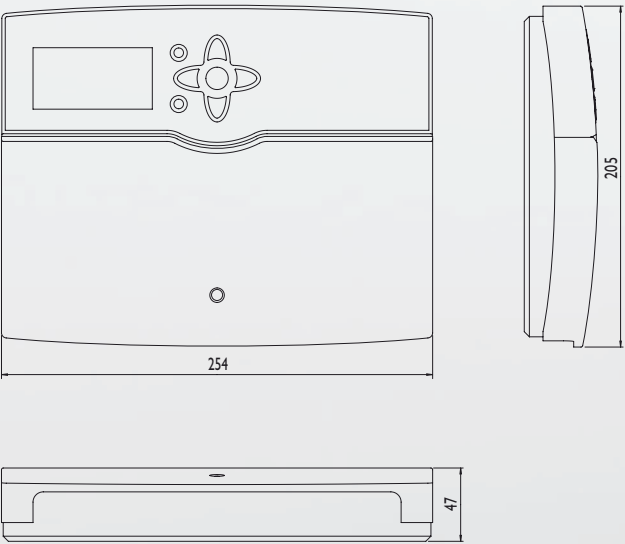
Ext. HX	
Relay	R7
Min speed	30 %
Store	1
Sensor HX	S9
☒ Target temp.	
Sensor	S10
Targ. temp.	60 °C
ΔTon	10.0 K
ΔToff	5.0 K
Overrun	2 min

Basic settings	
Language	English
☒ Auto DST	
Date	01.03.2012
Time	12:01
Temp. Unit	°C
Flow Unit	Litre
Press. Unit	bar
Energy Unit	Wh
Reset	

HC internal	
HC pump	R5
Mixer open	R6
Mixer closed	R9
Flow sensor	S7
Sen. Outd.	S8
Heating curve	1.0
Day correction	0 K
TFlowmin	20 °C
TFlowmax	50 °C
Mode	both
TSummer	20 °C
Daytime on	00:00
Daytime off	00:00
Ext. switch	S10
☒ Remote control	
Sen. RC	S11
☒ Timer	
Timer mode	Day/night
Night corr.	-5 K
Timer	>>
...	

Each optional function has its own menu with all adjustment channels required, clearly named.

Technical data



Inputs: 12 Pt1000, Pt500 or KTY temperature sensor inputs (7 of them can optionally be used for RTA11-M remote controls), 3 impulse inputs for V40 flowmeters; 4 Grundfos Direct Sensors™ (2 x analogue, 2 x digital), 1 CS10 solar cell

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

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 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: solar system controller for use in solar and heating systems. 7 integrated calorimeters and control of 2 weather-compensated heating circuits. Adjustable system parameters and add-on options (menu-driven), balance and diagnostics functions, function 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

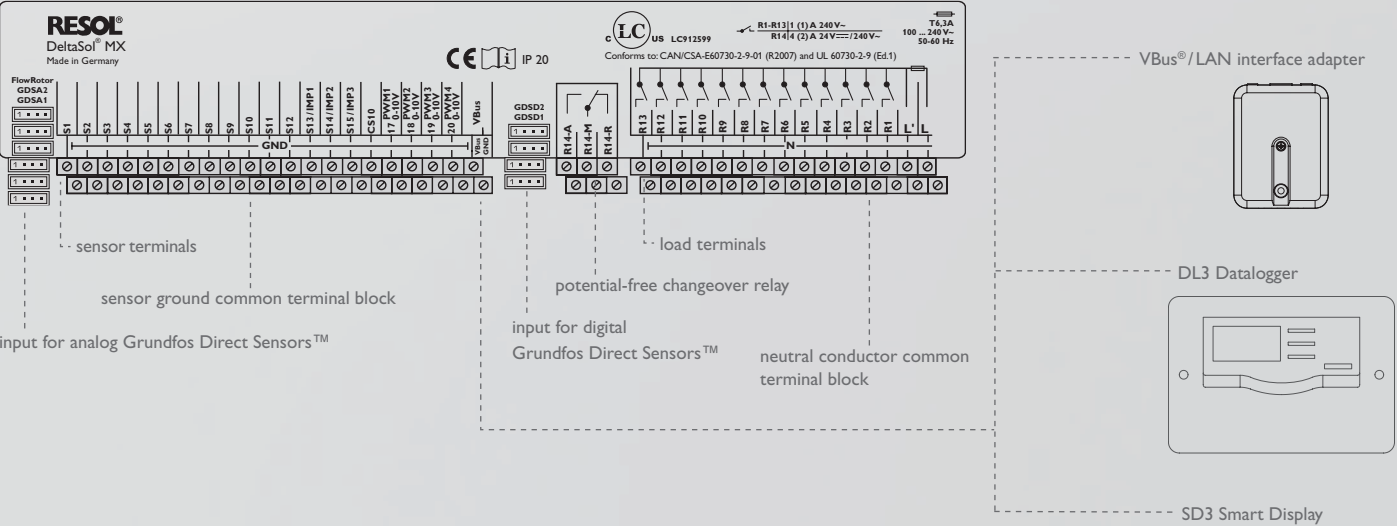
Protection class: I

Ambient temperature: 0 ... 40 °C

Pollution degree: 2

Dimensions: 205 x 254 x 47 mm

Electrical connection



RESOL DeltaSol® MX

System controller for solar and heating systems

Price bracket A **Article no: 115 992 03**

RESOL DeltaSol® MX - Full kit

System controller for solar and heating systems incl. 6 Pt1000 sensors (2 x FKP6, 4 x FRP6)

Price bracket A **Article no: 115 992 13**

RESOL DeltaSol® MX - Full kit incl. Smart Display SD3

System controller for solar and heating systems incl. SD3 and 6 Pt1000 sensors (2 x FKP6, 4 x FRP6)

Price bracket A **Article no: 115 992 23**



The all-rounder – DeltaSol® MX

Discover the new generation of system controllers for solar thermal systems!

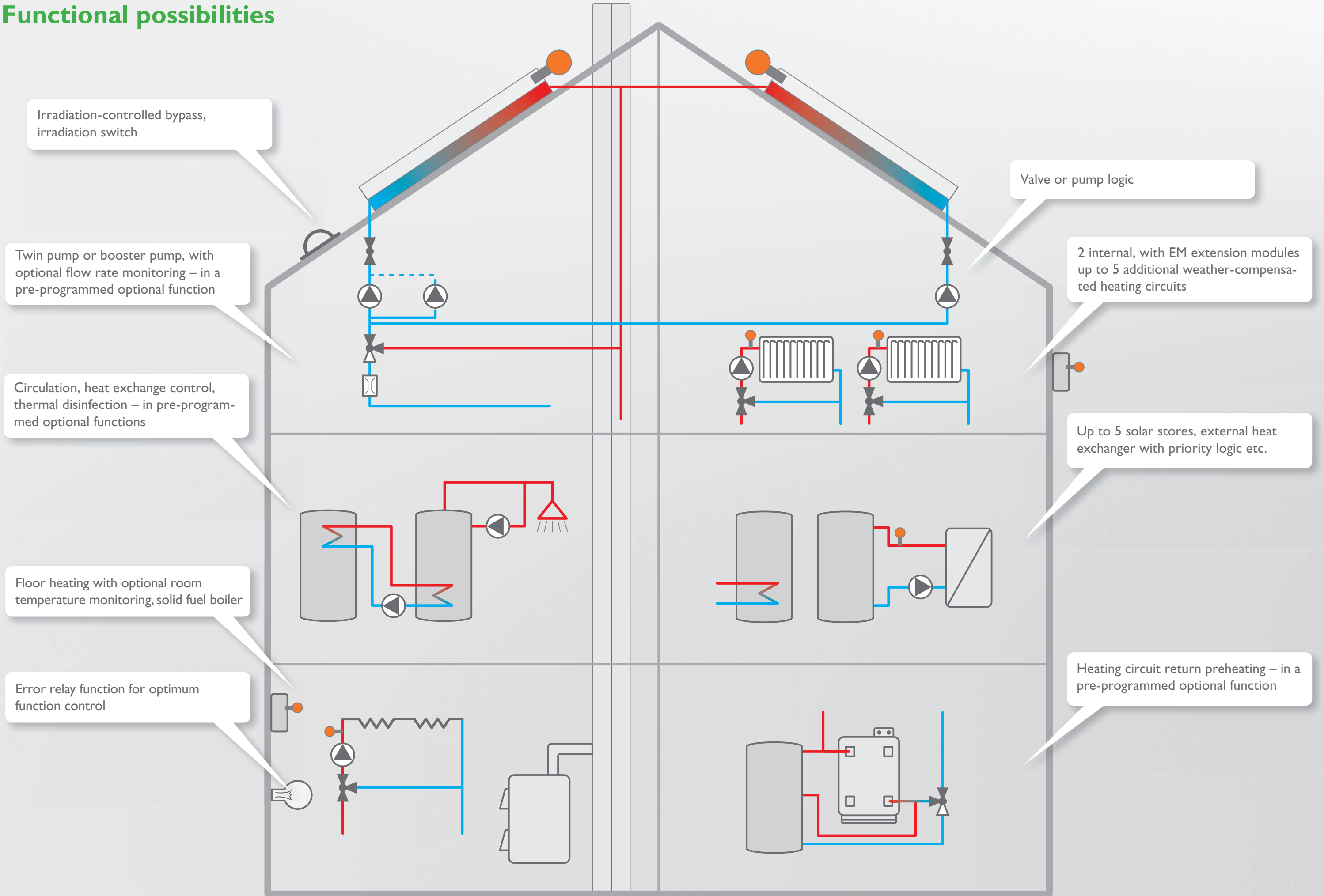
Easy combination and parameterisation of pre-programmed functions for several millions of hydraulic variants.

- ✓ Intuitive user guidance and status visualisation
- ✓ High-contrast full graphic display
- ✓ SD memory card slot for integrated data logging, transfer of adjustments and firmware updates – even without a PC
- ✓ Integrated control of up to 4 high-efficiency pumps via PWM outputs
- ✓ Up to 5 extension modules via RESOL VBus® (45 sensors and 39 relays in total)
- ✓ Energy-efficient switching-mode power supply



www.resol.com

Functional possibilities



Visualisation / Parameterisation

