



The devices are connected over the RESOL VBus[®] to enable data communication.

EM Extension module

The EM Extension module provides 5 additional relays and 6 additional sensor inputs for the *DeltaSol*[®] MX, BX Plus and *DeltaTherm*[®] HC / HC MAX controllers.

The Extension module can be used for all optional functions of the above-mentioned controllers and can also control a heating circuit.

- Usable for all optional functions of the *DeltaSol*[®] MX, *DeltaSol*[®] BX Plus and *DeltaTherm*[®] HC / HC MAX
- 7-segment LC display
- Function control

- Slide switch 0 Auto I
- Easy to install, configurable over the controller menu

TECHNICAL DATA

Inputs: 6 Pt1000, Pt500 or KTY temperature sensors

Outputs: 4 semiconductor relays and 1 potential-free relay

Switching capacity:

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

4 (1) A 24 V==/240 V~ (potential-free relay)

Total switching capacity: 4 A 240 V~

Power supply: 100–240 V~ (50–60 Hz)

Supply connection: type X attachment

Standby: 0.30 W

Mode of operation: type 1.B.C.Y action

Rated impulse voltage: 2.5 kV

Data interface: RESOL VBus[®]

Housing: plastic, PC-ABS and PMMA

Mounting: wall mounting

Indication / Display: LC display, 7-segment display

Operation: 3 buttons and 1 slide switch

Ingress protection: IP 20/EN 60529

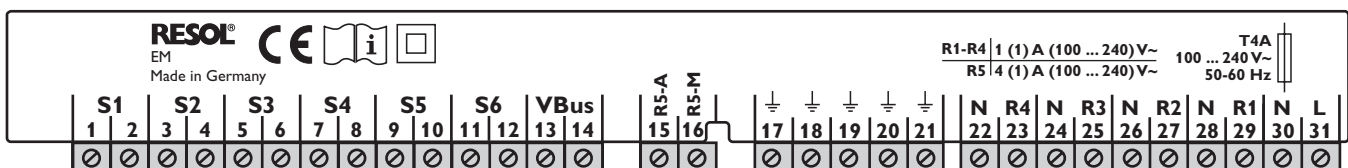
Protection class: II

Ambient temperature: 0 ... 40 °C

Degree of pollution: 2

Dimensions: 144 × 208 × 43 mm

ELECTRICAL CONNECTION



Article no.

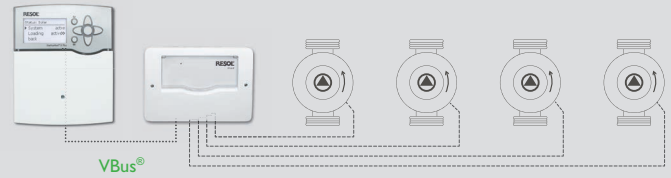
Article

Price bracket

145 440 80

EM Extension Module

A



EM-HP Extension module

The EM-HP Extension module enables the control of up to 4 loads with a high current consumption. The power supply of these loads is established over electromechanical relays with a switching capacity of 4 A each.

For the speed control of high-efficiency pumps, the Extension module is equipped with 4 PWM outputs that can be converted to 0-10 V outputs.

- Connection and speed control of loads with a high current consumption
- Simple connection to the controller via VBus®
- Easy configuration with selection and DIP switches
- 4 electromechanical relays

TECHNICAL DATA

Outputs:
4 electromechanical relays, 4 PWM/0-10 V outputs

PWM frequency: 512 Hz

PWM voltage: 10.5 ... 11 V

Switching capacity:
4 (2) A 240 V~ (electromechanical relay)

Total switching capacity: 8 A 240 V~

Power supply: 100–240 V~ (50–60 Hz)

Supply connection: type X attachment

Standby: 0.52 W

Mode of operation: type 1.B action

Rated impulse voltage: 2.5 kV

Data interface: RESOLVBus®

Housing: plastic, PC-ABS and PMMA

Mounting: wall mounting

Indication / Display: operating control LED

Operation: 4 DIP switches, 1 slide switch

Ingress protection: IP 20 / EN 60529

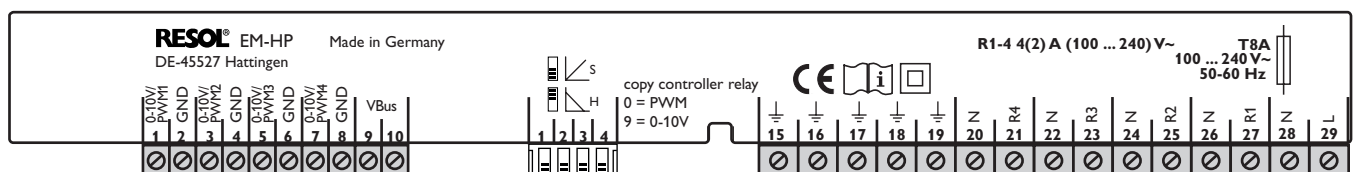
Protection class: II

Ambient temperature: 0 ... 40 °C

Degree of pollution: 2

Dimensions: 144 × 208 × 43 mm

ELECTRICAL CONNECTION



Article no.	Article	Price bracket
145 441 20	EM-HP Extension Module	A