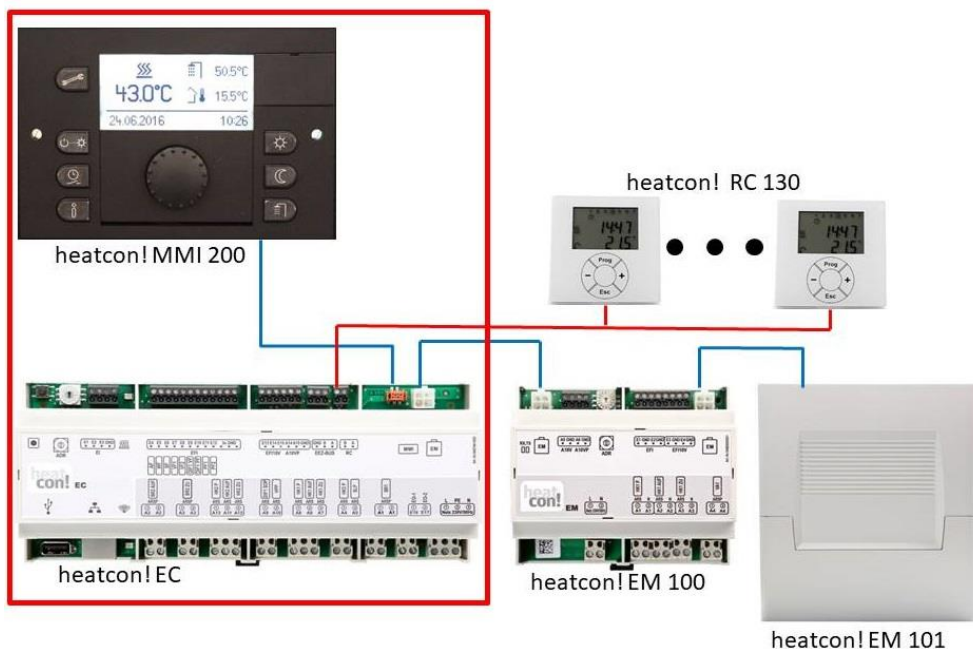


heat con!

Short instruction

heatcon! EC & MMI 200



0450000597-1945

GB Short instruction heatcon! EC & MMI 200

EN Safety instruction

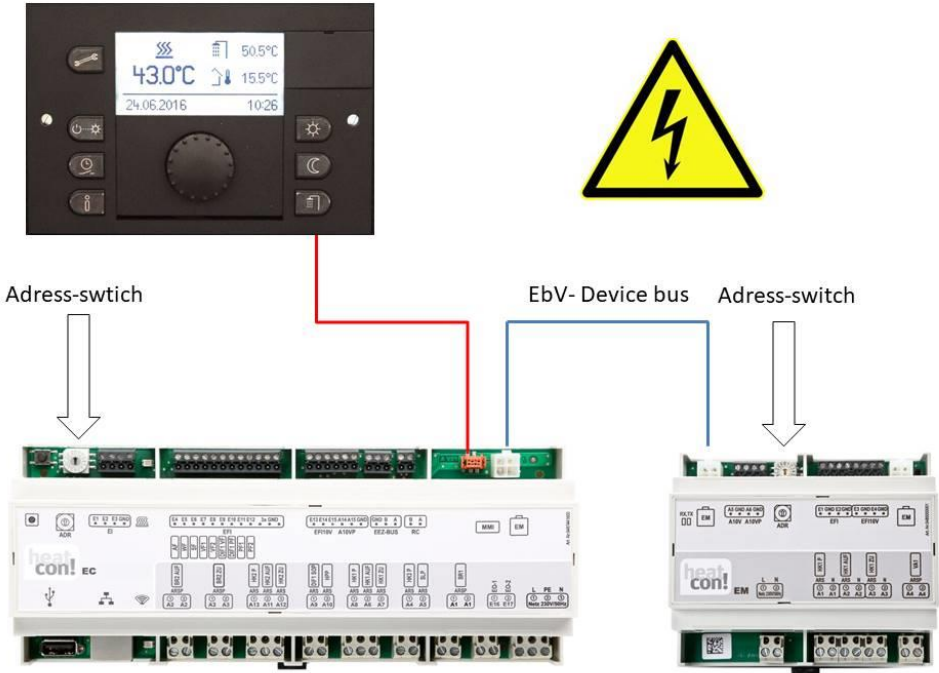


WARNING

Danger due to live parts.

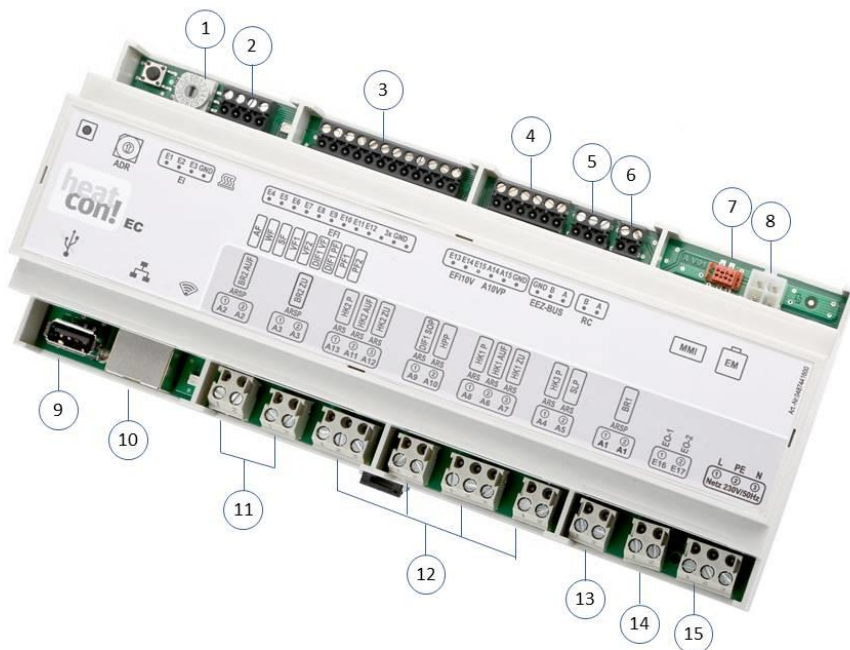
Some components are electrically live. Contact with live parts can result in an electric shock, burns or even death. Before working on the electrical system, observe the following points:

- Switch the system to a zero volts state.
- Secure to prevent switching back on.
- Check for zero volts state.



heatcon! EC

The installation of the heatcon! EC is menu-driven. The inputs and outputs are preset as marked on the device. Free inputs and outputs can be used for other functions via extended configuration (after initial setup in the Expert menu) (see also installation instructions and product documentation at <https://ebv-gmbh.eu/downloads>).



- | | | | |
|----|--------------------|----|----------------------------|
| 1 | Adress switch | 2 | Input EI |
| 3 | Digital inputs EFI | 4 | Input EF10V / Output A10VP |
| 5 | EEZ (GEN)-Bus | 6 | Connection room control |
| 7 | Connection MMI | 8 | EbV – Device bus |
| 9 | USB Port | 10 | RJ 45 Network connection |
| 11 | ARSP Output | 12 | ARS Outputs |
| 13 | ARSP Output | 14 | EO Inputs |
| 15 | 230V connection | | |

heatcon! MMI 200



1 Button "Emission measurement / manual mode" button

3 Button "Programming"

5 Cover service connection

9 Display

2 Button "Scenes/operating modes"


4 Button "Info"

6 Button "Comfort/Economy temperature"

8 Button "Hot water daytime temperature"

10 Rotary button (press & turn)

Technical Data

Installation	EC 1351 Pro top hat rail installation in the energy generator MMI 200 in standard cut-out 144 x 96 mm
Operating system	Enbeedet, Linux
Network connections, USB	<ul style="list-style-type: none"> • RJ45 Ethernet • USB 2.0
Power supply	230 V \pm 10 %, 50 Hz
Power consumption	max. 9VA
Protection class	I with functional earth (*)
IP rating	IP00
Fusing	User-supplied
Energy generator bus	heatcon! EC 1351Pro RS485 EbV GEN-Bus heatcon! EC 1321Pro Open Therm Bus
Ambient conditions <ul style="list-style-type: none"> • Storage temperature • Operating temperature 	-25 ... +60 °C -10 ... +50 °C
Connections screw terminals	<ul style="list-style-type: none"> • Mains voltage L, N,  • 3 x potential-free relay ARSP, max. 230V / 2A • 10 x relay 230V ONOR, max. 2A, sum current: max. 10A • 2 x opto-coupler input IOC 230V • 9 x sensor pulse input EFI • 3 x sensor pulse 0...10V input EFI 10V • 3 x pulse input PI • 2 x output 0...10V PWM O10VP • Energy generator bus RS485 EbV GEN bus • Connection room device bus RC (2-wire bus) • Connection control unit MMI 200 • EbV device bus
Standards	DIN EN 60730
Dimensions EC 1351 Pro MMI 200	210 x 90 x 61 mm (length x width x height) with top-hat rail 144 x 96 x 29 mm (length x width x height)
Weight EC 1351 Pro MMI 200	335 g 125 g
MMI display dimensions	Graphic display 70 x 35 mm
MMI operation	7 speed buttons 1 rotary push button
MMI colour	Black/white
Colour heatcon! EC 1351 Pro	Grey

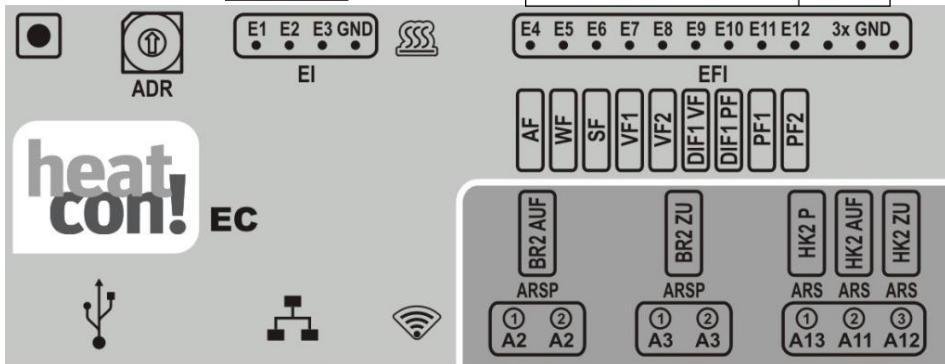
heatcon! EC connections for print and notes

- EI Input impulses
- EFI Input sensor impulses
- EFI10V Input sensor impulse 10V
- EO Input Optocoupler (operating hours counter)
- ARS Output relay closser
- ARSP Output relay closser potential-free
- A10VPP Output 10V PWM (pulse width modulation)
- EEZ Bus Energy generator bus
- RC Room control
- MMI Machine machine interfacia
- EM Extension module

AR	BR2	A2 ①	
SP	AUF	A2 ②	

AR	BR2	A3 ①	
SP	ZU	A3 ②	

ARS	HK2P	A13 ①	
	HK2AUF	A11 ②	
	HK2ZU	A12 ③	



Push button

Address switch

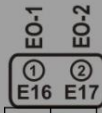
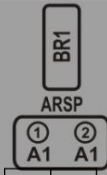
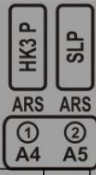
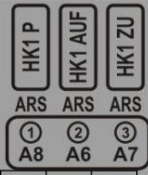
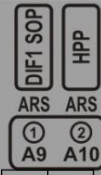
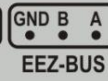
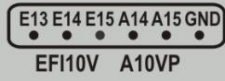
EI	E1	
	E2	
	E3	
	GND	

EFI	AF	E4
	WF	E5
	SF	E6
	VF1	E7
	VF2	E8
	DIF1VF	E9
	DIF2PF	E10
	PF1	E11
	PF2	E12
		GND
		GND
		GND

	E13
EFI	E14
10V	E15
A10	A14
VP	A15
	GND

EEZ	GND
Bus	B
	A

RC	B
	A



ARS	DIF1 SOP	A9 ①
	HPP	A10 ②

ARS	HK1 P	A8 ①
	HK1 AUF	A6 ②
	HK1 ZU	A7 ③

ARS	HK3 P	A4 ①
	SLP	A5 ②

AR SP	BR1	A1 ①
		A1 ②

EO	EO-1	E16 ①
	EO-2	E17 ②

L	Netz 230V/ 50Hz	①
		②
N		③

Extension module

Art.-Nr.0481900140

(*) Note

The *heatcon! EC 13xx Pro* is supplied with a top hat rail housing.
Protection class I, earth conductor connection for functional purposes.
Protection against contact and the IP 20 degree of protection must be ensured by installation.

Login data

NOTE the login data to your *heatcon!* system here:

User level	User name	Password
Expert:	<input type="text"/>	<input type="text"/>
Caretaker:	<input type="text"/>	<input type="text"/>

When connecting to the single room control *heatapp!* please record the password of the *heatapp! gateway* here:

heatapp! gateway	
Password:	<input type="text"/>

NOTE

Create a setup log file and a data backup after completing the installation.



More information you will find:
<https://ebv-gmbh.eu/downloads/>

[EbV heating systems](#)

Learn more [here](#). Scan QR-Code or go to <https://learning.ebv-gmbh.de>



EN – Warranty conditions

Improper use, non-observation of these instructions, use of inadequately qualified personnel and independent changes exclude any liability on the part of the manufacturer for the resulting damage. The manufacturer's warranty becomes void.

Impairment of device function if incorrect spare parts are used!

If unauthorised parts are used correct functioning is not assured. Use spare parts authorised by customer service.

EN– Declaration of Conformity

EbV Elektronikbau- und Vertriebs-GmbH assures that the product is produced according to valid EU regulations. A complete version of the Declaration of Conformity can be found in the installation manual at <https://ebv-gmbh.eu/downloads/>



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