

TECHNICAL DATA

ABB i-bus® KNX

VAA/A 6.24.2

Floor heating-Controller, 6-fold, MDRC

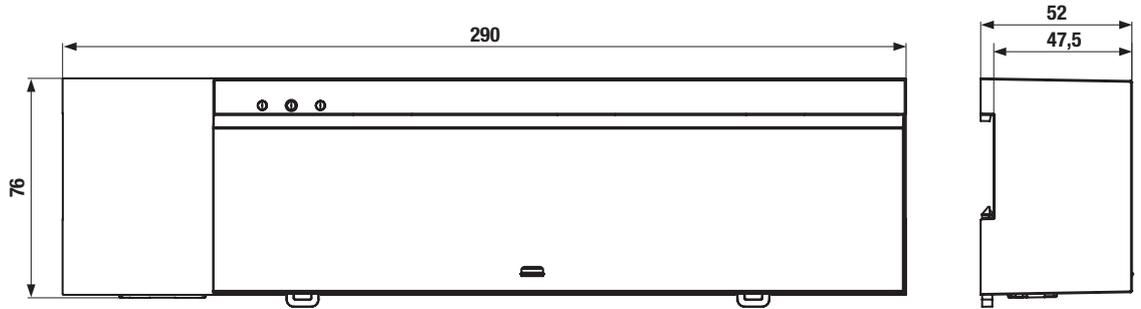


Description of product

The device is intended for the installation in the floor heating distribution and includes 6 valve outputs for the control of analog (0–10 V) or thermoelectric (24 V) valve drives (e.g. TSA/K 24.2).

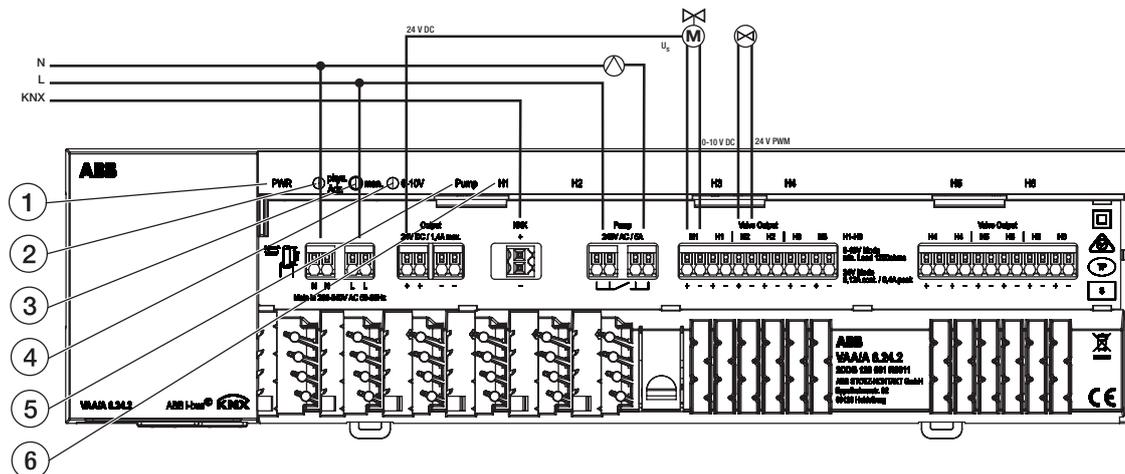
Additionally it includes a relay output for the switching of a heating circulation pump. The device has an integrated power supply for the supply of the valve drives. Connected thermoelectric 24 V DC valve drives are directly supplied through the connection terminals. For the supply of 0–10 V DC drives the device has an additional 24 V DC power supply outlet.

Dimension drawing



2CDC072029F0018

Connection



2CDC072030F0018

LEGEND

- 1 Power LED for operating status:
green = ok; red = error
- 2 Programming button and LED
for the physical address
- 3 LED and button for manual operation
of the outputs
(manual mode and channel selection)
- 4 LED and button for manual operation and
channel mode: on = 0 – 10 V
- 5 LED shows the status of the integrated
pump relay
- 6 LED shows the status of the respective output

Technical data		
KNX operating voltage	Bus voltage	$I_{Bus} \leq 7.5 \text{ mA}$
Operating voltage		230 – 240 V AC
Frequency		50 – 60 Hz
Standby output		< 1 W
Drives		2 per channel
Valve output		24 V DC ... SELV; 0.4 A peak; 0.12 A permanent or 0 – 10 V at at least 1250 ohm
Switch output (pump)		5 A, 240 V AC floating, μ contact
24 V output terminal		Max. 1,4 A
Max. wire cross-sections		0.2 – 1.5 mm ²
Ambient temperature		– 5 °C ... + 50 °C
Type of installation		DIN-rail
Protection rating		IP 20 in accordance with EN 60529
Protection class		II in accordance with EN 60730-1 subject to designated installation

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NOTE

Comment concerning the installed 24 V power unit:
The 24 V output terminal supplies the operating voltage for 0 – 10 V valves, which are connected to the device.
The current available at this terminal is reduced by approx. 0.1 A per connected 24 V/2 W actuator, if thermal actuators (24 V switching) are connected at the same time.

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NOTE

In order to reduce the inrush peaks typical for thermal actuators, the power unit can supply 2.7 A for a short time.
The power unit is inherently short-circuit proof and over temperature resistant. However, a permanent operation outside the specified characteristics can reduce the service life of the device.

Technical data		
Temperature range	Operation	- 5...+45 °C
	Transport	-25...+70 °C
	Storage	-25...+55 °C
Ambient conditions	Maximum air humidity	93 %, no condensation allowed
	Atmospheric pressure	Atmosphere up to 2,000 m
Design	Surface mounting (SM)	Modular installation device
	Housing/color	Plastic, gray
Dimensions	Dimensions	76 x 290 x 52 (H x W x D)
Mounting	35 mm mounting rail	Is included with the device
Weight		0.5 kg
Approvals	KNX certification	To EN 50491
CE conformity	In accordance with the EMC directive and low voltage directive	

Software				
Device type	Application	Max. number of group objects	Max. number of group addresses	Max. number of associations
VAA/A 6.24.2	Floor heating-Controller/...*	92	254	255

* ... = Current version number of the application. **Please refer to the software information on our website for this purpose.**

Ordering details					
Device type	Product Name	Order No.	bbn 40 16779 EAN	Weight 1 pcs. [kg]	Packaging [pcs.]
VAA/A 6.24.2	Floor heating Controller	2CDG120061R0011	06371 5	0.5	1

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NOTE

Please refer to the VAA/A 6.24.2 Floor heating-Controller, 6-fold, MDRC product manual for a detailed description of the application. It is available free of charge at www.abb.com/knx.

ETS and the current version of the device application are required for programming.

The latest version of the application and corresponding software information is available for download from www.abb.com/knx.

After import into ETS, it appears in the Catalogs window under Manufacturers/ABB/Heating, ventilation, air conditioning/ Valve drive controller.

The device does not support the locking function of a KNX device in ETS. Using a BCU code to inhibit access to all the project devices has no effect on this device. Data can still be read and programmed.



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