Alpha-Basis EIB AB 7001-6 / AB 7001-12

Alpha-Basis EIB is a connection unit to connect EIB room thermostats to the actuators (e.g. Alpha-Actuators). The room temperature information is sent from the EIB thermostats via the EIB installation bus to the Alpha-Basis EIB. Furthermore, the Alpha-Basis provides the corresponding operation voltage to the connected actuators.

Predominantly, it is used at the heating circuit distributor of a system. The Alpha-Basis is appropriate for new constructions, as well as for the re-fitting of residential and commercial buildings with already existing floor heating systems.

In order to adapt to individual heating system requirements, extension modules can be connected to the integrated interface of the Alpha-Basis. This modular structure allows an extension of the Alpha-Basis at any time. The spring/clamp terminal connections minimize installation time.



Features

- Operating mode indicators (voltage supply, fuse)
- Function indicator (operating condition of thermostats)
- Output protection against short circuit and overload
- Connection by screwless plug-in/clamping connection technology
- Clear arrangement of the connection line with cable grip
- Can be extended on modular basis
- Channel-wise working mode selection: switching control or continuous control
- Monitoring of the objects "control variable" (emergency program)
- Valve protection in summer operation

General Information

AB 7001-6 for 6 heating zones AB 7001-12 for 12 heating zones

- Scope of Supply 1 x Alpha-Basis 7001 EIB
- 1 x Installation instruction
- 2 x 2 screws
- 1 x mounting bracket (295 mm)
- 4 x Distance sleeves
- 1 x Connection plug EIB

Ordering Information

Our staff will be glad to assist you in finding the Alpha-Basis fitting your application. Call us at: +49 - 53 41 - 84 75 - 0

Download the product database at: http://www.moehlenhoff.de/EIB

Application & Function

The Alpha-Basis EIB is used during the scope of the installation of EIB technology in new constructions or in the modernisation of privately owned residences, office buildings, multipurpose halls, and also for modernizing and refitting older buildings with floor heating.

In most cases, the Alpha-Basis is mounted in the heating circuit distribution cabinet, directly on the wall, or on a mounting bracket. The EIB cable is connected via the EIB connection terminal integrated in the basis. The EIB installation bus allows a connection of a maximum of 13 Alpha-Actuators

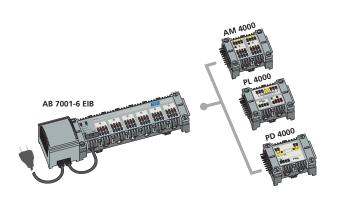
The Alpha-Actuators are connected via the cable grips to the plugin/clamping connection of the Alpha-Basis EIB. The room temperature information is sent from the EIB thermostats via the EIB installation bus to the Alpha-Basis EIB. After the processing of the information, the corresponding actuators are triggered for opening and closing the valves. The product database allows a channel-defined working mode selection between switching control and continuous control. If the control variable is missing, an emergency program is started. The heating actor is deactivated with the object "summer operation". If desired, a valve protection program can be executed along with this. The determination of the exact control variable allows the optimal adaptation of the flow temperature by the boiler. For this, however, the boiler must support this function.

The entire EIB control system is marked by easy installation, enormous system security and high controlling comfort. It allows a precise and comfortable temperature control in different heating zones within a building

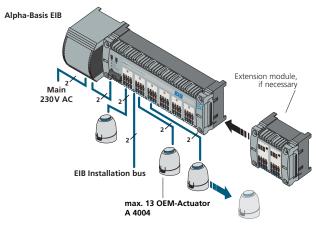
The integrated interface allows the extension of the Alpha-Basis with optionally available modules. In order to comply with individual requirements, the Alpha-Basis EIB can be extended, optionally, with the ActuatorModule (AB AM 4000) and, if necessary, with the PumpModule (AB PM 4000).

The Alpha-System EIB

Extension Options



Connection Recommendations





Technical Data

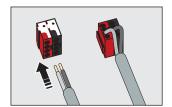
Туре	AB 7001-6	AB 7001-12	
Operating voltage	230 V AC, 24 V secondary	230 V, 24 V secondary	∢ 302 ▶
Max. power input	50 W	50 W	
Fuse	T 2 A	T 2 A	70
Heating zones	6	12	
Max. number of actuators (about 2 W) 13	13	
Dimensions (mm) H / W / L	70 / 75 / 302	70 / 75 / 302	
Weight including transformer	1.700 g	1.700 g	
Protection class	11	II	_
Protection type	IP 20	IP 20	70
Ambient temperature	0 to 50°C	0 to 50°C	
Storage temperature range	-25 to 60°C	-25 to 60°C	™
Relative humidity	max. 80% ¹⁾	max. 80% ¹⁾	
Applicable wire sections			(6
Solid wire	0.5 – 1.5 mm²	0.5 – 1.5 mm ²	1) not condensing
Flexible wire ²⁾	1.0 – 1.5 mm²	1.0 – 1.5 mm ²	2) The wires of the actuators can be used with factory-
			mounted end sleeves.



Only authorised electricians with EIB training may perform the initialisation and the programming of the Alpha-Basis EIB.

Installation Notes

Connection of the Installation Bus

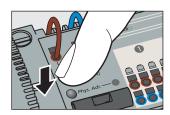


Connect the EIB plug to the bus line.



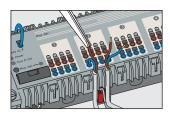
Connect the plug of the 2-pole-wiring into the plug connector.

Operation Notes



When the set key is pressed, the Alpha-Basis changes over to the initialisation mode and waits for the allocation of the physical address.

Connection of Actuators



Installation: Insert the cable terminations into the clamping connections. Observe the colour codes of the connections.





Disassembly: Open the clamp with a screwdriver and pull out the cable.



You may download the product database with a programming aid at: www.moehlenhoff.de/eib



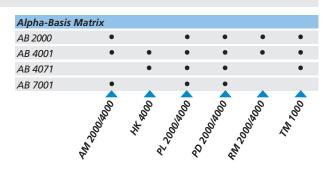
Please take information on the start-up and on the controlling operation from the manual included in the scope of delivery.

Product Overview Alpha-Basis Connection System

Devices

The Alpha-Basis consists of a flexible and broad product portfolio. Following versions are available:

Alpha-Basis 230 V	AB 2000-1 / AB 2000-6
Alpha-Basis 24 V	AB 4001-1/ AB 4001-6
Alpha-Basis RC 868 MHz	AB 4071-6 / AB 4071-12
Alpha-Racic FIR	AR 7001-6 / AR 7001-12

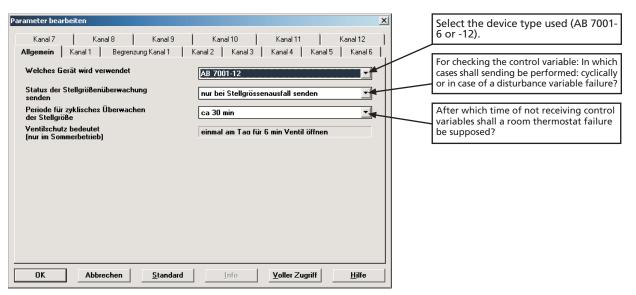


Technical Information

Alpha-Basis AB 7001-6 / 7001-12

The Software Interface EIB for the Alpha-Basis EIB Parameter Adaptation

1. Basic Setting of the Application

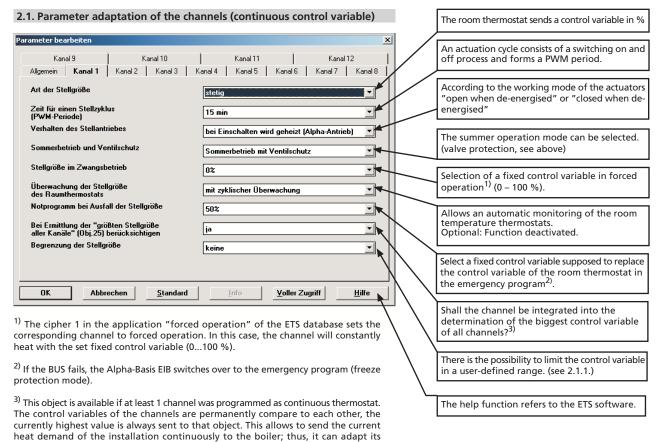


If the function "valve protection" is activated, the corresponding valve is triggered once a day for six minutes during summer operation. This will effectively protect the valve from clogging.

2. Parameterbearbeitung der Kanäle

performance to the actual requirements.

The control variable type depends from the room thermostat working mode (continuously or switching)

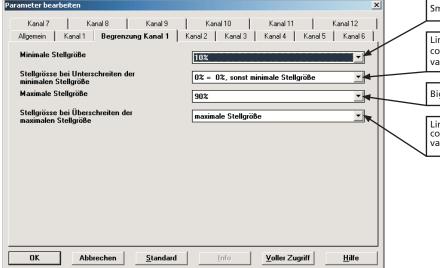




The Software Interface EIB for the Alpha-Basis EIB Parameter Adaptation

2.1.1. Parameter adaptation of the channels (continuous control variable)

If "Control variable limitation" is selected as user-defined under 2.1., the following dialog window appears:

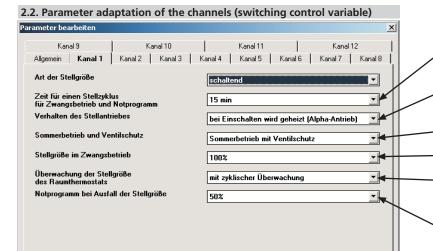


Smallest allowed control variable

Limitation, if the room thermostat receives a control variable below the minimum control variable.

Biggest allowed control variable

Limitation, if the room thermostat receives a control variable above the maximum control variable.



Voller Zugriff

Hilfe

Defines the cycle time during forced operation or emergency program (4...30 min)

According to the working mode of the actuators "open when de-energised" or "closed when de-energised"

Summer operation mode (valve protection, see

Selection of a fixed control variable in forced operation $^{1)}$ (0 – 100 %).

basic setting of the application)

Shall a malfunction of the room thermostat be recognised quickly, triggering an emergency program²⁾?

Select a fixed control variable supposed to replace the control variable of the room thermostat in the emergency program²⁾.

The parameters of the Alpha-Basis EIB can be set back to the delivery state by performing a reset.

OK

Abbrechen

Standard

Möhlenhoff