OEM-Basis 24 V / 230 V
B 40.. / B 20..

The OEM-Basis is a connection unit for connecting the room thermostats (e. g. OEM-Thermostats) to the actuators (e. g. OEM-Actuators). Furthermore, the Alpha-Basis provides the operation voltage for the connected devices.

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

Features

- OEM-Design
- 24 V and 230 V versions
- Screwless spring-/clamp connection technique
- Clearly structured connections
- Large labeling field
- Perfect price performance ratio
- System integration with OEM Thermostats and OEM Actuators
- Integrated strain relief
- Optionally available with pump control system
- High functional safety
- maintenance-free

General Information

Scope of Supply (Standard)
Version OEM-Basis 24 V:
1 x OEM-Basis 24 V
1 x Manual in 9 languages

Version OEM-Basis 230 V:
1 x OEM-Basis 230 V
1 x Manual in 9 languages

Type
B 4012: Version 24 V without transformer
B 4022: Version 24 V with pump control without transformer
B 2012: Version 230 V
B 2022: Version 230 V with pump control

Accessories
- Transformer for 24 V version
- Clock timer for automatic temperature setback

Connection Recommendations
- OEM-Thermostat 24 V: R 4...
  230 V: R 2...
- OEM-Actuator 24 V: A 4004
  230 V: A 2004

Customer-specific Version
Customer-specific Versions are available on request.

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

Application

The OEM-Basis is applied for the installation of floor heating systems in new constructions or in the modernisation of privately owned residences, office buildings, multipurpose halls, and also for modernising and refitting older buildings.

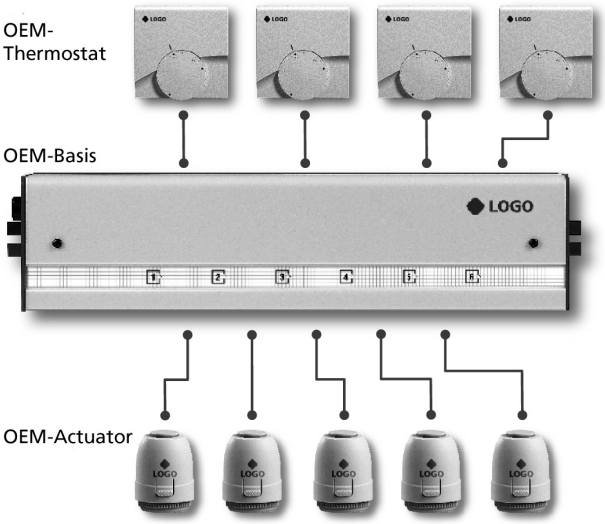
Function

The OEM-Basis is mounted in the heating circuit distribution cabinet, directly on the wall. The OEM Basis provides the operation voltage for the connected devices. It is designed for the installation of 6 room thermostats (e. g. OEM-Thermostats) and a total of 12 actuators (e. g. OEM-Actuators).

The screwless connection technique (spring/clamp terminal connection) allows simple and quick installation. All electrical lines are secured with cable grips.

A Timersignal in particular in connection with the OEM-Thermostats allows automatic temperature setback using two separate heating programs.

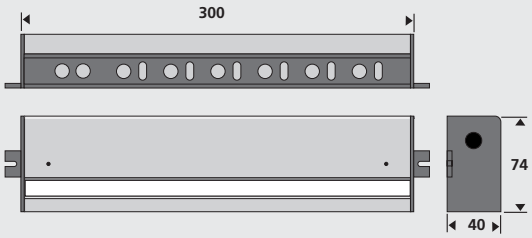
The OEM-System



Connection Systems

Technical Data

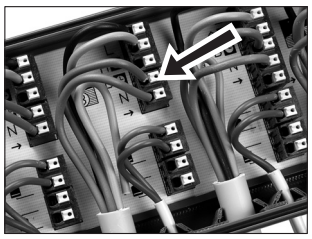
Type	B 40..	B 20..
Operating voltage	24 V AC	230 V AC
Switching voltage/-current[3]	24 V DC, 5 A	230 V AC, 5 A
Max. power input	50 W	50 W
Fuse	T 2A	T 4A H
Max. number of thermostats	6	6
Max. number of actuators (about 2 W)	12	12
Heating programs, optional	2	2
Dimensions (mm) H / W / L	40 / 74 / 300	40 / 74 / 300
Weight	350 g	350 g
Protection class	II	II
Protection type	IP 20	IP 20
Ambient temperature	0 to +60°C	0 to +60°C
Storage temperature range	-25 to +60°C	-25 to +60°C
Relative humidity	max. 80%[1]	max. 80%[1]
Applicable wire section		
Solid wire[2]	0,25 – 1,5 mm²	1,5 mm²
Flexible wire[2]	0,25 – 1,5 mm²	1,5 mm²



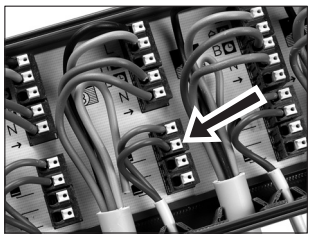
1) not condensing
2) We recommend 5-wire lines (5 x 1.5 mm² NYM) for the electric connection of the thermostats.
3) with pump control (optionally)

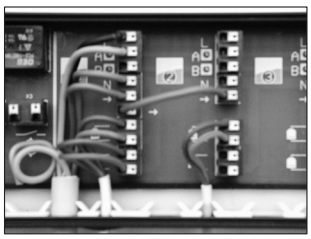
Planning and Installation Notes

Connection of the room thermostats



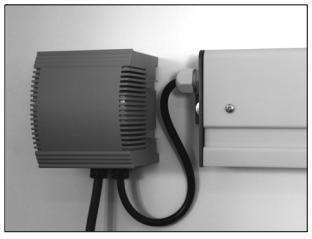
Connection of the actuators

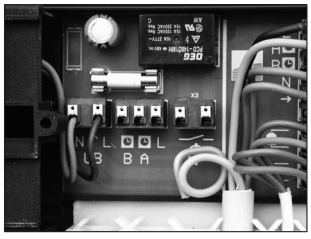




It is possible to assign more than two actuators to one thermostat by wire strap.

Connection of transformer (24 V version)



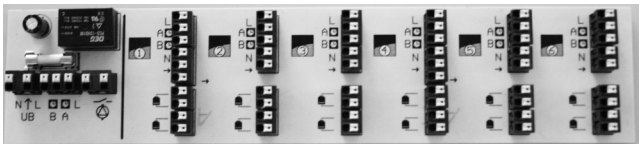


Europe: The system has to be powered by a 24 V transformer according to EN 60730.

North America: The system has to be powered by a 24V class II transformer.

Heating programs

In connection with the OEM-Thermostat and a timer, an automatic temperature setback is possible, using two separated heating programs.



Note:
A free assignment of thermsotats to one of the two heating programs is possible.

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