

6-channel heating actuator 0.05 A

Order no.: 1018 00

System information

This unit is a product of the Instabus-EIB-System and corresponds to the EIBA Guidelines. Detailed technical knowledge acquired in Instabus training courses is a prerequisite for the understanding of the system. The functions of the device are software-dependent. Detailed information on the software and the functions implemented and the software itself are available from the manufacturer's product data bank.

Planning, installation and commissioning of the device are effected with the help of EIBA-certified software.

For the product database and technical descriptions please refer to the Gira Datenpool CD, order no. 1992 10, or to the internet at www.gira.de offering up-to-date information.

**Safety warnings**

Attention: Electrical equipment must be installed and fitted only by qualified electricians and in observance of the applicable accident prevention regulations.

Outputs 1 thru 6 are not electrically separated from the mains supply when the device is off. To avoid electric shocks, the device must therefore be disconnected from the power supply during the work (by cutting out the automatic circuit breaker).

Any non-observance of the installation and fitting instructions may cause fire or other hazards.

Function

The heating actuator is designed for controlling electro-thermal servo-drives for heatings and air-conditioning ceilings.

The device has 6 electronic outputs permitting noise-free control of electro-thermal servo-drives by means of EIB telegrams.

Up to 4 electro-thermal servo-drives (e.g. servo-drives from Heimeier, Sauter, Möhlenhof) can be connected to each output.

The outputs are controlled either by a switching or a PWM signal.

To prevent overloading of the device by strong inrush pulses, the actuator switches its outputs with a time delay (0.5 seconds delay from output to output).

Characteristics

- Outputs suitable for resistive loads of $I_N = 50 \text{ mA}$ at 230 / 240 V.
- Overload/short circuit protection of the outputs ensured by monitoring and shutoff of the corresponding channel with checkback signal to the EIB.
- Output programmable as switching (1 bit) or as permanent (8 bit) PWM signal.
- Emergency operation in the event of bus voltage failure programmable for summer and winter.
- Protection against jamming valves programmable.
- Change of direction of the control action programmable.
- Read-out of current object values via the instabus.
- PWM manipulated variable approx. 50% on first commissioning.
- Forced-control position programmable
- Cyclic monitoring of the manipulated variables

Instructions

- Do not connect mixed loads, but only actuators of the same type per channel group (channels 1..3 or 4..6). Otherwise risk of overloading.
- In the event of overload, the channels are shut off for at least 6 minutes. Thereafter, the actuator detects the overloaded or shortcircuited channel and switches it off permanently.
- Locate and eliminate the cause of the overload shutoff in strict observance of the safety warnings.
- To reset the overload shutoff, the actuator must be disconnected for approximately 5 seconds from the mains supply. After a reset of an overload shutoff it is no longer possible to detect the overloaded channel. If the cause of the overload shutoff is not eliminated, the actuator will shut off again.
- Connect the servo-drives in frost-sensitive rooms to channels 1 and 4 as these channels are the last that are switched off in the event of overload.
- Use the output terminals ↑ and N exclusively for the connection of 4 servo-drives at maximum.
- Connecting the N-conductor of further devices to the output N terminals is not permitted. Otherwise risk of irreparable damage to the actuator.
- Do not connect capacitive or inductive loads. Otherwise risk of irreparable damage to the actuator.
- The 'programmed response after bus voltage failure' is available only after connection of the bus and the mains.

Connection

The device is connected to the EIB at connecting terminal (1).

The supply mains is connected to terminals L and N as shown in the schematic diagram.

The servo-drives are connected in accordance with the schematic diagram. The diagram shows the connection of outputs 1 and 6. Outputs 2 thru 5 are connected in the same way.

Important:

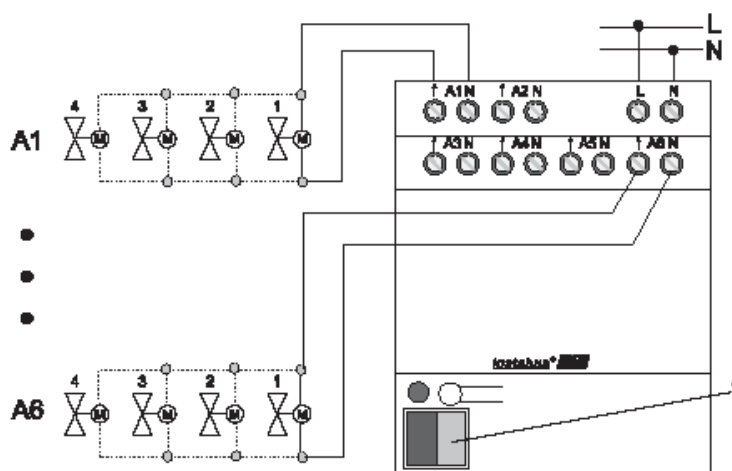
Output terminals ↑ and N must be exclusively used for the connection of servo-drives.

Connecting the N-conductor of the output terminals to further devices may cause irreparable damage to the actuator.



Attention!

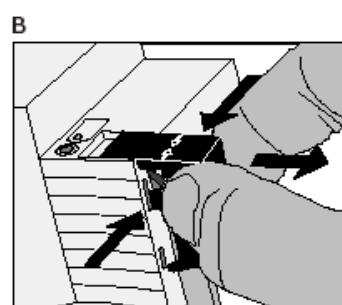
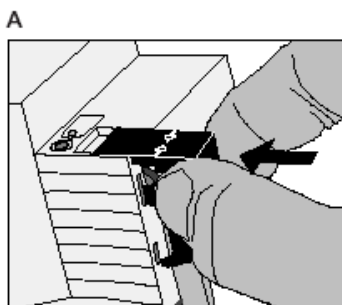
Disconnect the device from the mains before connecting the outputs.



Cap

Slide the cap over the bus terminal with the bus line at the bottom (fig. A) until it is heard to engage.

Remove the cap by pressing against the sides and by pulling it out at the same time (fig. B).



Technische Daten

Instabus EIB
supply voltage: 21 - 32 V DC

Instabus EIB
power consumption: max. 125 mW

Mains supply: AC 230/240 V, 50/60 Hz

Overall power
dissipation: approx. 2 W

Instabus EIB connection: Instabus connecting
terminals

Connection of mains
and outputs: screw terminals
0.2 – 4 mm² single wire or
2 x 0.2 – 2.5 mm² single
wire
0.75 – 4 mm² stranded wire
without ferrule or
0.5 – 2.5 mm² stranded
wire with ferrule

Outputs: 6

Type of contact: electronic

Switching capacity: $I_N = 50$ mA resistive
at 230 / 240 V AC

Minimum load per
output used: 1 servo-drive

Make current: max. 1.5 A per output

Number of electro-thermal
servo-drives to be
connected to an output: max. 4 per output
(depending on type)

Ambient temperature: -5 °C ... +45 °C

Max. housing
temperature: $T_C = 75$ °C

Storage temperature: -25 °C ... +70 °C

Installation width: 72 mm (4 pitch)

Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.

Please return the unit postage paid to our central service department giving a brief description of the fault:

Gira
Giersiepen GmbH & Co. KG
Service Center
Dahlienstrasse 12
D-42477 Radevormwald



The CE sign is a free trade sign addressed exclusively to the authorities and does not include any warranty of any properties.

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