

Actuator 2

Order No.: 1097 00

General system information

This device is a product of the Instabus EIB-system and complies with EIBA directives. Detailed technical knowledge obtained in Instabus training courses is a prerequisite to proper understanding. The functionality of this device depends on the software.

Detailed information on loadable software and attainable functionality as well as on the software itself may be taken from the manufacturer's product database.

Planning, installation and commissioning of the unit are performed by means of EIBA certified software.

Function

With its M30 x 1.5 fitting, the actuator is adapted to the standard valve base types used for temperature control. The device is maintenance-free and designed for direct connection to the Instabus EIB.

With its basic setting, the actuator is optimally adapted to Heimeier valve base types.

For use with valves from other manufacturers, the actuator can be equipped with adaptors supplied by Heimeier. In this case, no guarantee for proper functioning will be assumed.

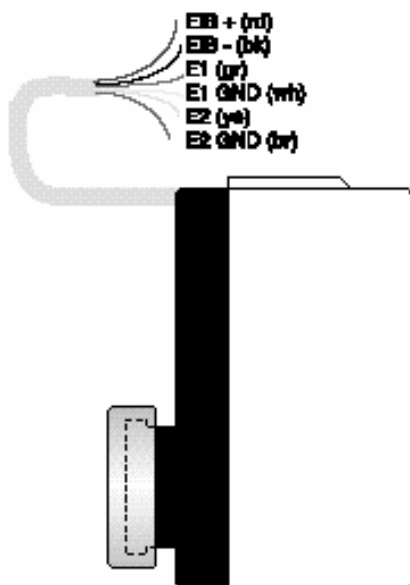
The device has two binary inputs which can be used either for internal priority control (dew-point sensor, window contact, etc.) or as fullfledged binary inputs for switching, dimming, blind/shutter control or similar applications inside the Instabus EIB system.

Safety instructions

Attention: electrical equipment must be fitted and installed only by qualified electricians.

Installation

A

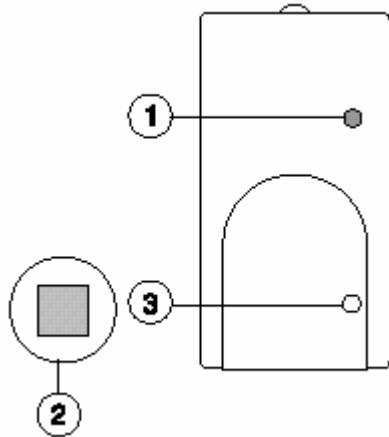


- Install actuator on valve base with a slight pressure, screw knurled nut on the valve thread and tighten by hand.
- Recommended fitting position: vertical (figure A).
- Secure the connecting cable of the fitted drive at the point of connection with a strain-relief device (e.g. cable outlet) and connect with a terminal (e.g. Wago type 243). When laying the cable make sure that it is not in permanent contact with heated parts, such as heating pipes or radiator body.

Assigning the physical address

At the point of activation ②, the actuator can be switched contactfree into the programming mode by means of programming magnet ③. Service LED ① lights up.

Commissioning

B

During commissioning, the self-adjusting routine of the actuator detects the valve control pin position in the closed and fully open position. Based on a characteristic parameter curve, the manipulated variable transmitted on the Instabus EIB is then linearly correlated either with the effective valve travel or alternatively with the linearized volume flow. After a presettable number of position changes, the actuator automatically performs the adjusting routine.

Function check

- The service LED ① can be switched contact-free with the programming magnet ② at the point of activation ③ (bus voltage check).
- A flashing service LED may indicate actuator malfunction (software-dependent).

The device cannot be opened without causing irreparable damage.

Technical Data

Supply voltage Instabus EIB: 24 V DC (+6 V / -4 V)

Power consumption: max 240 mW

Connection (ready-made connecting cable)

Type: (J) EYY-OB 3 x 2 x 0.6

Length: 1 m

Wire assignment

Instabus EIB + : red (rd)

Instabus EIB - : black (bl)

Binary input 1: green (gr)

GND 1: white (wh)

Binary input 2: yellow (ye)

GND 2: brown (br)

Mechanical characteristics

Travel: min. 1.0 mm

max. 4.2 mm

Actuating force: adapted to thermostat valves with soft seal $F_{nom} = 120N$

Actuating time: 25 s / mm

Degree of protection: IP 42 acc. to EN 60529 (IP 43 for vertical installation)

Safety class: III acc. to EN 60730

Mounting position: vertical to horizontal

Fastening: knurled nut M30 x 1.5

Binary inputs	
number:	2
signal current:	approx. 1 mA per channel
signal voltage:	appr. 21 V pulses / 5ms
length of line:	max. 10 m
Temperatures	
ambient:	0°C ... 45°C in operation
medium:	max. 100°C
storage/transport:	-20°C ... +70°C
Dimensions (WxHxD):	46 x 87 x 60 mm

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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