


**Instabus / IR converter**  
0588 ..

**GIRA**

**Table of contents**

Information .....	10
Function .....	11
Controls .....	11
Programming the remote control .....	12
What to do when... ..	13
Suitable IR remote controls .....	13
Deleting the IR memory .....	14
Selecting the place of installation .....	14
Fitting and commissioning .....	15
Acceptance of guarantee .....	15



**Safety warnings**

**Attention:**

This device does not contain any parts to be serviced by the user. Electrical equipment must be installed and fitted by qualified electricians only.

Failure to observe any of the instructions may result in irreparable damage, in fire and in other hazards.

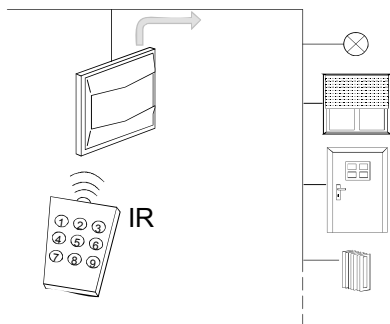
**Information**

The Instabus / IR converter is a product of the instabus EIB System and conforms to the EIBA directives. The Instabus / IR converter makes use of modern electronics and electrical installation technology to communicate with other EIB and IR equipment in the house and can therefore be used flexibly for many applications and in conformity with the user's desires.

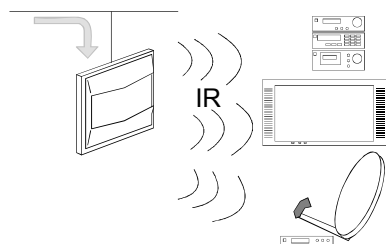
The present instructions describe the most essential functions and the necessary operating steps.

In case of queries or demands concerning the functions of the Instabus / IR converter, please contact your electrical fitter.

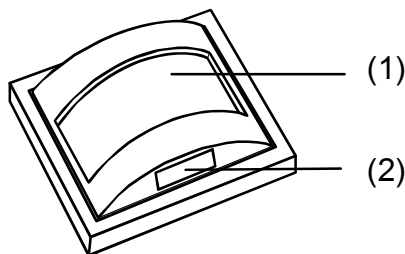
A



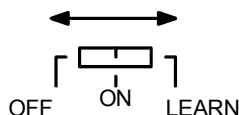
B



C



D



## Function

The Instabus EIB / IR converter

- receives IR signals from standard IR remote controls and operates lighting, heating and other equipment in accordance with the commands received (FIG. A).
- transmits IR signals to TV, audio or other remote-controlled equipment in the room (FIG. B).

Thus, it is possible to control the electrical installation in a simple and comfortable way by means of remote controls (a large number of commercial-grade IR remote controls can be used)<sup>1</sup> or to control, for instance, electronic audio and video equipment via the electrical installation also from other rooms.

These applications can also be combined.

The IR remote control can easily and fast be adapted to the Instabus / IR converter.

## Controls (FIG. C)

- (1) IR window
- (2) slide switch

The function depends on the position of the slide switch (FIG. D):

Position	Status
ON	Normal operation – IR and other equipment controlled.
OFF	Off – no equipment controlled. The IR window flashes red.
LEARN	Learn – IR channels can be programmed. Operation not possible.

1. See chapter 6, "Suitable remote controls"

Programming the remote control

N.B.: The EIB equipment which the Instabus / IR converter is intended to control or the EIB sensors controlling the Instabus / IR converter must have been programmed into the device beforehand during commissioning.

If it is desired to control other consumers, the device must be reprogrammed. For reprogramming, the EIB commissioning software (e.g. ETS3) is needed. In this case, contact your electrical fitter.

For programming an IR remote control key into the Instabus / IR converter proceed as follows:

1. Slide the switch at the bottom of the device into the 'LEARN' position. The IR window is now lit up green.
2. Trigger the selected sensor function (e.g. by depressing an EIB pushbutton briefly or also for a longer time). The IR window is now lit up orange.
3. Actuate the key of the remote control to be programmed briefly two times. The distance between the remote control and the Instabus / IR converter should be approx. 30...40 cm. The IR window confirms the first key-press by flashing orange once and the second key-press by flashing orange three times. After this cycle the window shines green again.
4. Continue to program further IR channels (step 2) or terminate the 'Learn' mode (slide switch to position 'ON').



Important

- Make sure during programming of the IR keys that the keys of the remote control are pressed as briefly as possible. The IR command will other-wise be stored repeatedly so that there may be mal-functions.
- An IR window flashing three times red indicates a fault. The IR window shines green now. Repeat the procedure with step 2 or abort (slide switch to position 'ON').
- If the slide switch is in the 'LEARN' position, and if no confirmation has been given within 2 minutes, the Instabus / IR converter terminates the procedure. The IR window flashes green (in one-second intervals) and the device has no function. End the 'Learn' mode (slide switch in pos. 'ON').
- Note the key assignment of the IR remote control.

Example

Remote control	Key	Action
TV	„darker“	dining room roof lamp off

## What to do when...

### ... equipment to be controlled does not respond?

- Slide switch in position 'ON'?
- Instabus / IR converter in sight contact with equipment to be controlled?
- Check the batteries of the remote control for condition.
- Is the IR key concerned still programmed? Repeat programming in acc. with chapter 4.
- Has the IR memory been deleted (chapter 7)? Repeat programming in acc. with chapter 4.
- IR window flashing green?  
Check the position of the slide switch and move to position 'ON'.
- IR window shining red?  
The internal energy source is exhausted and needs recharging. Wait a few minutes until the red light goes out. If this is not the case, contact the EIB installation fitter.

### ... the remote control cannot be programmed?

- Check that the remote control can be used in combination with the Instabus / IR converter (see chapter 6).
- Check the batteries in your remote control for condition.

### ... further EIB appliances – e.g. pushbuttons, luminaires, blinds/shutters, etc. – are to be used in combination with the Instabus / IR converter ?

- The Instabus / IR converter must be reprogrammed. Contact the EIB installation fitter.

## Suitable IR remote controls

The remote controls mentioned below can be used in combination with the Instabus / IR converter .

For detailed information, read the Technical Data of your IR remote control (part of the operating instructions of the remote control or of the equipment to be controlled).

The remote controls or the electrical equipment to be used with the Instabus / IR converter must fulfill the following requirements:

- Infrared remote controls using the RC5 code.
- IR wavelength: 920...970 nm
- Carrier frequency: 20...70 kHz

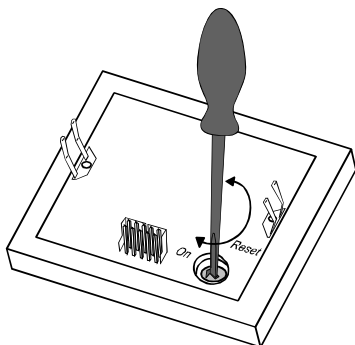
The following devices cannot be used:

- Remote controls without carrier frequency of older design
- IR remote controls with a carrier frequency of 455 kHz
- Radio remote controls and transmitters
- The old Gira IR system cannot be used either.

## Deleting the IR memory

After the installation and before programming of the IR keys, it is useful to delete the IR memory beforehand by proceeding as follows:

1. Withdraw the device from the bus coupler.
2. Turn the adjusting potentiometer at the rear of the device with a small screwdriver into the 'Reset' position.



3. Plug the device back onto the bus coupler. The IR memory is now deleted and the IR window now flashes orange.
4. Withdraw the device a second time from the bus coupler. Turn the potentiometer back to 'On' and plug the Instabus / IR converter back onto the bus coupler. Programming of new IR channels is now possible.

## Selecting the place of installation

The place of installation should be chosen so as to achieve optimal communication in operation.

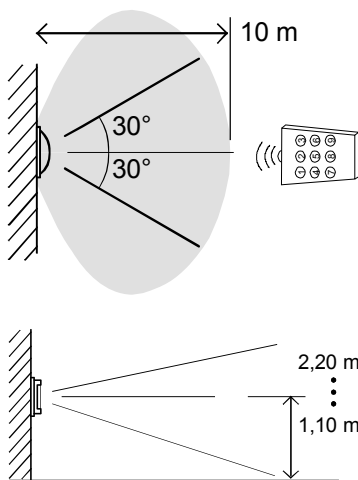
For perfect operation, the Instabus / IR converter needs sight contact with the IR appliances to be controlled (e.g. audio equipment) and the IR remote control transmitting to the Instabus / IR converter.

The place of installation must therefore be chosen so that

- in operation, the IR remote control can be easily pointed to the Instabus / IR converter;
- there are no objects, pieces of furniture, curtains, etc. impairing the sight contact between the Instabus / IR converter and the equipment to be controlled.

The lateral range is optimal within an angle of  $60^\circ$  (from the median line). Greater ranges and wider angles can be covered when transmitter and receiver are arranged in a straight line. The same applies, when the IR rays are reflected from walls or furniture in the room.

The device can be installed at hand range or also at a height of 2.20 m.



The range is reduced

- outside the boundaries shown,
- when the batteries are weak or discharged.



### Safety warnings

#### Attention:

Electrical equipment must be installed and fitted by qualified electricians only.

Failure to observe any of the instructions may result in irreparable damage, in fire and in other hazards.



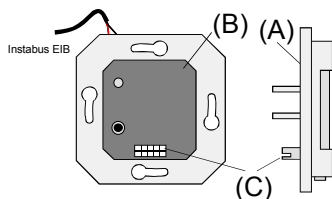
### Important

The Instabus / IR converter can only be installed on the flush-mounted Instabus bus coupler 2, order no. 0645 00 supplied with the device.

The use on other bus couplers is not possible.

## Fitting

When user module (A) is plugged onto a flush-mounted bus coupler (B), these two devices are connected via user interface (C).



## 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.

Gira  
Giersiepen GmbH & Co. KG  
Postfach 1220  
D-42461 Radevormwald  
Telefon: +49 / 21 95 / 602 - 0  
Telefax: +49 / 21 95 / 602 - 339  
Internet: [www.gira.de](http://www.gira.de)