

IP-Router  
2167 00



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Systeme

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Device KNX IP Router	Physical Address
Order Number 2167 00	IP Address
KNX Serial Number #1 45645353254896	DHCP Name
KNX Serial Number #2 13646457254390	KNX Secure FDSK WVEBBL-IACMKM-LOPSZM
MAC Address or other Serial Number 00:80:41:ae:fd:7e	MRESVI-3K2PF1-FUBVLF
KNX Secure FDSK AAEBBI-IACHKM-GOSWZM	GPA Initial Device Password Ahnjy9eWVgNt+bqz
SUESVI-3K1PFN-FHZVQF	
Other Serial Number 2365945525	KNX IP S I

2

## IP router

### Safety notes



**Electrical devices may only be installed and connected by a qualified electrician.**

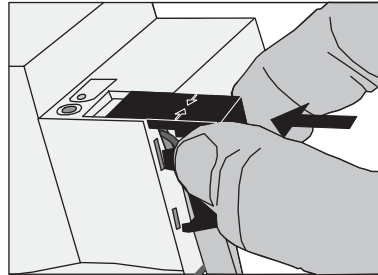
**Failure to observe the instructions can result in damage to the device, fire, or other dangers.**

**These instructions are part of the product and must remain with the end customer.**

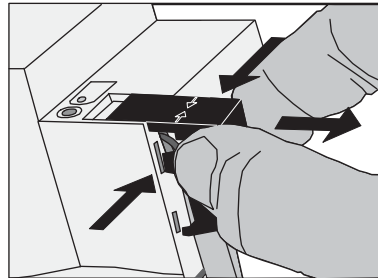
### Device design

Figure 1:

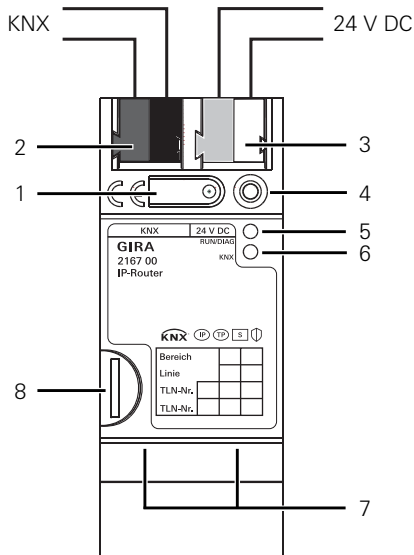
- 1 Programming button
- 2 KNX connection
- 3 External power supply connection
- 4 Programming LED:  
red = router  
yellow = data logger / clock
- 5 Operation display (green):  
on = ready for operation  
flashing = diagnosis code
- 6 Data reception on KNX line (yellow)
- 7 Network connection
- 8 microSD card reader



3



4



1

### Function

#### Intended use

- Connection of KNX lines with aid of data networks and use of the internet protocol (IP).

#### Product properties

- Filtering and forwarding of KNX telegrams
  - Use as KNX lines or area coupler
  - Use as KNX clock
  - Recording of KNX telegrams on microSD card
  - Supply via external 24 V DC
  - The KNX IP router is prepared for KNX Secure from index status I14 in combination with Firmware 3.3 (additional firmware update required).
- The necessary FDSK (Factory Default Setup Key) is located as a label on the side of the KNX IP router and is also included as a Secure Card (Fig. 2).



#### Important notes

- Store the Secure Card carefully.
- We recommend that you remove the label on the device for maximum security.
- Restoration is not possible if the FDSK is lost.

### Installation and electrical connection



**DANGER!**  
Electric shock if live parts are touched.  
Electric shock may lead to death. Isolate all appropriate circuit breakers before working on the device or load. Cover up live parts in the vicinity!

## Mounting the device

Observe the ambient temperature. Ensure sufficient cooling.

- Snap the device onto a top-hat rail according to DIN EN 60715. See image for installation position.
- Connect the external power supply to the connection terminal (3). Recommendation: Use white-yellow connection terminal.
- Connect KNX line with red-black bus terminal (2).
- Attach cover cap over the KNX/external power supply connection.
- Establish network connection by plugging RJ45 plug into RJ pin jack (7).
- Insert microSD card into the card reader (8) (IP router).

## Attaching the cover cap, Fig. 3

A cover cap must be attached to protect the bus connection from dangerous voltages in the connection area.

- Guide bus line to the rear.
- Attach cover cap over the bus terminal until it engages.

## Removing the cover cap, Fig. 4

- Press cover cap on the sides and remove.

## Start-up

Load the physical address and application software

Use as	Physical address
Line coupler	x.y.0
Area coupler	x.0.0
Data interface	x.y.a
Data logger/ Clock	x.y.b

Start-up software from ETS 4.2.

### IP router/IP interface

- Briefly press the programming button (1) (< 4 seconds).  
Programming LED (4) lights up red.
- Assign physical address.
- Programming LED (4) goes out.
- Label device with physical address.
- Load application software, filter tables, parameters, etc.

### IP-router as data logger/clock

- Press the programming button (1) longer (> 4 seconds).  
Programming LED (4) lights up yellow.
- Assign physical address.
- Programming LED (4) goes out.
- Label device with physical address.
- Load application software and parameters.

## Technical data

KNX medium	TP1
Start-up mode	S mode
KNX rated voltage	DC 21...30 V SELV
KNX current consumption	Typically 85 mA
KNX connection	Bus connection terminal
External supply voltage	DC 24...30 V
Power consumption	2 W (for DC 24 V)
Connection	Connection terminal
IP communication	Ethernet 10/100 BaseT (10/100 Mbit/s)
IP connection	RJ45 pin jack
Supported protocols	ARP, ICMP, IGMPv3, DHCP, AutoIP, UDP/IP (Core, Routing, Tunnelling, Device Management)
microSD card	Max. 32 GByte (SDHC)
Ambient temperature	0 °C to +45 °C
Storage temperature	-25 °C to +70 °C
Installation width	36 mm (2 MW)

## Warranty

The warranty is provided in accordance with statutory requirements via the retailer. Please submit or send faulty devices postage paid and with an error description to your sales representative (retailer/installation company). They will forward the devices to the Gira Service Center.