

## KNX IP-Router

Order no.: 1030 00

### System information

This device is a product of the Instabus-KNX system and complies with KNX directives.

Detailed technical knowledge obtained in Instabus training courses is a prerequisite to proper understanding.

The functionality of this device depends upon the software.

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

Planning, installation and commissioning of the unit is effected by means of KNX-certified software.

An updated version of the product database and the technical descriptions are available in their latest version on our Internet homepage.



#### Safety instructions

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

**Failure to observe the instructions may cause damage to the device and result in fire and other hazards.**

**Supplying the IP router with power from the KNX unit (,non-choked' output) is not permitted. Risk of grounding the safety extra-low voltage of the KNX system.**

**Use safety transformers in acc. with EN 61558-2-6 or doorbell transformers in acc. with EN 61558-2-8.**

**These instructions are part of the product and must be left with the customer.**

## Function

### Description

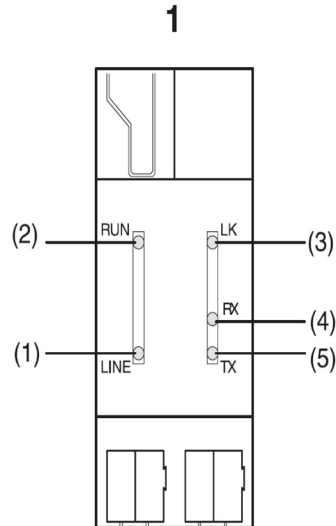
- Rail-mounted device for installation in distributions
- Interconnection of KNX lines via local area data networks (LAN) based on the use of the IP protocol (IP = Internet Protocol)
- Use as line / area coupler (filter tables)
- Interconnection of KNX devices with PCs or other DP devices via IP (use as data interface)
- Power supply via external power supply unit (accessories)
- Transmission of KNX system failure message to the PC
- Electrical separation between KNX and IP network



Depending on application, access requirements, data security and data volume it may be advisable to install independent network paths for individual services using the IP network.

### Status LED (Figure 1)

- (1) LINE (yellow) data reception on KNX line
- (2) RUN (green) ready for operation
- (3) LK (green) Ethernet link signal (lit up during active connection with the IP network)
- (4) RX (yellow) Ethernet receive signal (lit up/ flashing on reception of valid IP telegrams)
- (5) TX (yellow) Ethernet transmit signal (lit up/ flashing during active transmission to the IP network)



### Information for qualified electricians



**DANGER!**

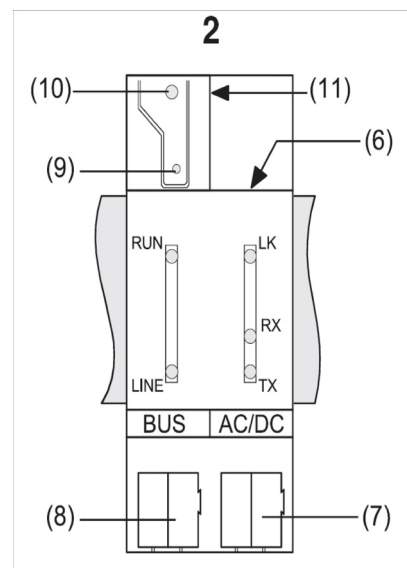
**Risk of electric shock on accidental contact with live parts in the fitting environment. Electric shocks can be fatal. Before fitting, disconnect the supply voltage and cover up live parts in the working environment.**

### Fitting and electrical connection

Fitting in fixed installations indoors, in dry rooms, power distributions or small housings with DIN rail.

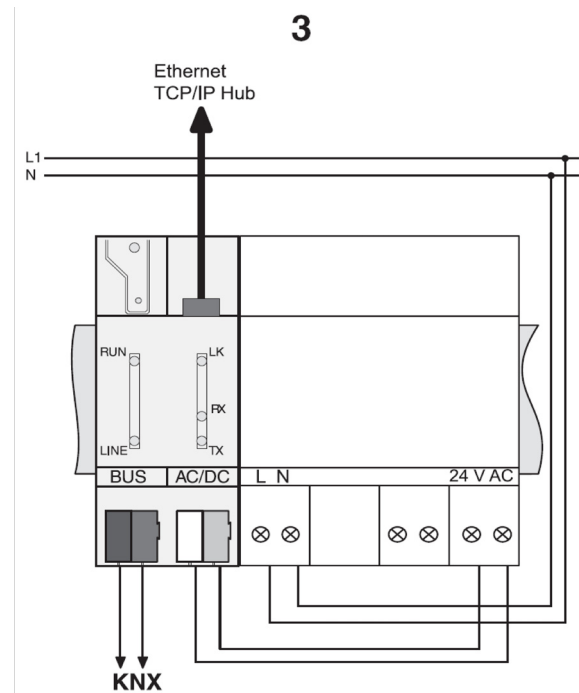
Observe the temperature range. Ensure sufficient cooling.

- Install by snap-fastening on mounting rail in acc. with EN 60715. Mounting position see figure 2.
- Connect the external power supply to terminal (7). Recommendation: Use white/yellow terminal.
- Connect the KNX line by means of the black/red bus terminal (8).
- Connect the IP side with RJ45 connector plugged into RJ socket (6).





Wiring example see figure 3.



## Commissioning

### Physical address and application software

Use as  
line coupler: Physical address x.y.0.

Use as  
area coupler: Physical address x.0.0.

Use as  
data interface: Physical address x.y.z.

When used as line/area coupler, no other lin/area coupler must be operated in the same segment.

Commissioning software from ETS2 version 1.2 onwards.

- Press programming key (9).  
Programming LED (10) is illuminated.
- Assign the physical address.  
The programming LED is extinguished.
- Note the physical address on the device label (11).
- Download the application software, filter tables, parameters etc.



The IP address (e.g. 255.173.27.39) is loaded as parameter together with the application software into the device or automatically assigned by a DHCP service.

## Technical data

KNX medium:	TP1	IP communication:	Ethernet 10BaseT (10 Mbit/s)
Mode of commissioning:	S-Mode (ETS)	IP connection:	RJ45 socket
KNX supply:	DC 21...30 V SELV	Supported protocols:	ARP, ICMP, IGMP, UDP/IP, DHCP, KNXnet/IP (Core, Routing, Tunneling, Device Management)
KNX current rating:	typically 10 mA	Ambient temperature:	-5 °C ... +45 °C
KNX connection:	Bus terminal	Storage temperature:	-25 °C ... +70 °C
External supply:		Fitting width:	36 mm (2 modules)
Voltage:	AC/DC 12...30 V	Weight:	100 g
Power consumption:	max. 800 mW (25 mA at DC 24 V)		
Connection:	Connecting terminal		

## Accessories

Gira power supply unit 24 V AC, order no. 1024 00

## 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

Gira  
Giersiepen GmbH & Co. KG  
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