



KNX IP-Router

IP-Network Interface

Product description

The IP-Router is the interface between KNX-bus and IP network. It can be used as line or backbone coupler using the LAN network as backbone. Inside the ETS (from version 3.0d) the IP-Router can be used as interface to program KNX-devices and for diagnostics via LAN. The device uses the KNXnet/ IP protocol. The connection to the KNX line is done via bus connection block, the connection to the IP network via RJ45 jack. The IP-Router needs an additional supply voltage. This can either be done via POE (power over ethernet) or via power supply 24V AC or DC.

Security advices

- Electrical connection and start up operations shall only be done by electrically skilled persons.
- For installation, assemblage, operating and accident prevention please comply with the regional regulations.
- Connection and maintenance operation might only be done in de-energized condition.
- If safe operation is not possible, the device must not be started up or has to be disabled.
- The device shall only be applied for normal use and according to the specified technical data.
- The device may only be used in combination with original accessories.

Configuration

- Configuration by ETS version 3.0f or higher of the KNX Association.
- By pushing the programming button A2, the programming mode is switched on and off. The programming LED A1 shows the mode. The physical address can only be programmed when the LED is switched on.

Starting-up

- Check device, clamps and connections.
- Switch on the power supply and the bus voltage and check the LED states.
- Mount all covers; apply special labels, if necessary; update the technical documentation.

Advices

- For proper function of the IP-Router as line or backbonecoupler (KNXnet/IP Routing) all network components have to support IP multicasting.
- Especially network/LAN routers have to be assembled that way , that IP multicast datagrams are forwarded.
- For KNXnet/IP routing the IP multicast address 224.0.23.12 has been reserved international.

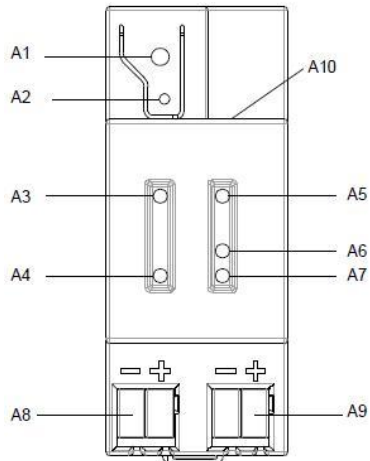


Technical Data

KNX-Bus	Nominal voltage	29V DC (21-30V DC)
	Power consumption via POE	max. 10mA (at 29V DC) 48V DC (IEEE 802.3af) Max. 0,8W
Supply voltage	External voltage	24V AC/ DC nominal (AC: 12-24V, DC: 12-30V) max. 1,7W (57mA at 24V DC)
Network-communication	Ethernet supported Internet Protocols	10BaseT (10 Mbit/s) ARP, ICMP, IGMP, UDP/IP, DHCP, AutoIP
	KNXnet/IP according to KNX- system specification	Core, Routing, Tunneling Device Management
Connections	KNX-Bus	0,6-0,8 mm Ø single wire (red-black connection block)
	Supply voltage	0,6-0,8 mm Ø single wire (white-yellow connection block)
	Ethernet/ IP network	RJ45 jack
Environment	Operation environment	-5° to +45° C
	Storage environment	-25 °C to +70 °C
	Relative humidity	5 to 93 % non-condensing
General	Potection	IP 20
	Degree of pollution	2
	Installation	on DIN rail 35 mm
	Dimensions	2 SU 36 x 90 x 55 mm (WxHxD)
	Weight	approx.. 105g



Location and function of the display and operator elements



- A1 LED red: indicating normal operating mode (LED off) and addressing mode (LED on)
- A2 learning button for switching between normal operating mode and addressing mode for receiving the physical address
- A3 LED green: Operation
- A4 LED yellow: data transmission on bus line (Line)
- A5 LED green: Ethernet Link signal (Lk)
- A6 LED yellow: Ethernet Receive signal (Rx)
- A7 LED red: Ethernet Transmit signal (Tx)
- Note
When the learning button (A2) is pressed, this LED signals for 10 seconds how the IP address was assigned to the device:
1x flashing: fixed IP address
2x flashing: DHCP
3x flashing: AutoIP
- A8 extra low-voltage bus terminals (red-black)
- A9 extra low-voltage terminals (yellow-white)
- A10 RJ45 socket for data network cable
sticker with MAC-address