

Operating and mounting instructions

ComBridge IP Router Pro

Best. Nr.: 3622-141-18

General Usage

The compact ComBridge IP Router Pro enables the forwarding of telegrams between different lines via a LAN (IP) as a fast backbone.

The device also serves as a programming interface between a PC and the KNX bus (e.g. for ETS programming).



The device supports KNX Security. The option can be activated in the ETS. As a secure router, the device enables the coupling of non-secured communication on a KNX TP line with a secure IP backbone.

KNX Security also prevents unauthorised access to the system with the interface function (tunneling).

The IP address can be assigned via DHCP or through the ETS configuration. The device operates according to the KNXnet/IP specification using Core, Device Management, Tunneling and Routing.

The ComBridge IP Router Pro has an extended filter table for main group 0..31 and can buffer up to 150 telegrams. Power is supplied via the KNX bus.

Device types and accessories

The following unit types are currently available from this product group:

Product	Description	Order no:
ComBridge IP Router	Router	3622-141-17
ComBridge IP Router Pro	Router Secure	3622-141-18

Scope of delivery

The scope of delivery of a ComBridge IP Router Pro includes the following individual components:

- Complete device with connected bus connector
- Operating and mounting instructions
- Delivery in break-proof individual packaging

Application programs

The following application programs are currently available:

- 3622-IPRouter Pro_V1.1.0

Installation advice



Danger to life from electric current.

- The device is intended for interior installation in dry rooms.
- The device must only be installed and commissioned by an accredited electrical engineer.
- Please follow country-specific safety and accident prevention rules as well as all current KNX guidelines.
- During the installation the device must be switched of.
- Do not open the device.
- Faulty device must be returned to the manufacturer with a return delivery note.

Technical Specifications

CONNECTING DATA		
Power Supply	KNX Bus:	21..30 V DC / 20 mA
Connectors	KNX (black/red), TP:	0,6..0,8mm solid
	Ethernet:	RJ45 connector - 100 Mbit/s
GENERAL DATA		
Control and display elements	Programming button:	To assign the physical address. Display addressing mode Display KNX status Display device status Display Ethernet status Allow routing of group-addressed telegrams. Allow routing of physical-addressed telegrams.
	LED, red KNX-LED, green/red Mode-LED, green/red/orange IP-LED, green/red Pass GAs button Pass IAs button	
Mechanical Data	REG housing 1TE:	Plastic (PC)
	Width: Height: Length: Weight: Mounting:	18 mm 62 mm 90 mm 40 g 35mm DIN rail
Electrical safety	Pollution level:	2
	Protection type:*** Protection class:*** Overvoltage category: KNX Bus:	IP20 III III SELV DC 30V
EMC requirements	Complies with:	EMC directive 2014/30/EU
Environmental conditions	Environment conditions in operation:	-5°C bis +45°C
	Storage temperature: Rel. humidity (non condensing):	-25°C bis +70°C 5 % bis 93 %
Approval and CE marking	According to EMC-Guidelines:	(Residential and commercial buildings), Low Voltage guidelines
KNX	Medium: KNX registered: KNX Security:	IP/TP Yes AES-128, Tunneling V2, Core V2 Up to 8 connections Main group 0..31 55
	KNXnet/IP Tunneling: Extended filter table: Max. APDU Length:	
Ethernet	100BaseT:	100 Mbit/s
	Internet protocols:	ARP, ICMP, IGMP, UDP/IP, TCP/IP, DHCP und Auto IP

*(according to EN 60529); **(according to IEC 1140)

Location and function of the display and control elements

Connections for KNX bus and the Ethernet RJ45 connector are only accessible in the distributor when the cover is removed.

- A1:** KNX connector (black/red)
- A2:** prog. Led, red
- A3:** Programming button
- A4:** KNX Led, green/red
- A5:** Mode Led, green/red/orange
- A6:** IP Led, green/red
- A7:** Pass GAs button
- A8:** Pass IAs button
- A9:** Ethernet/RJ45 connector

