

Installation Guide

Version 1.0.0

INKNXRTR0080000

Intesis KNX IP Router Secure

Router between KNX TP and KNX IP.

Interface for connection to KNX TP via IP.

Capacity: Up to 8 IP tunneling connections simultaneously.

Owner's record

Find the serial number on the white label on the router's housing. For sales or technical assistance, we recommend writing it in the space below:

SN:

This is a KNX Secure Product

Support for KNX IP Secure and KNX Data Secure.

To know more, visit knx.org

Safety Information

- ⚠ Follow these instructions carefully. Improper work may seriously harm your health and damage the router and/or any other equipment connected to it.

Only technical personnel, following these instructions and the country legislation for installing electric equipment, can install and manipulate this router.

Install this router indoors, in a restricted access location, avoiding exposure to direct solar radiation, water, high relative humidity, or dust.

All wires must only be connected to networks without routing to the outside plant.

Take the necessary antistatic precautions before manipulating the router to avoid electrostatic discharges.

Safety instructions in other languages can be found [here](#).

Configuration

Configure the router with ETS (compatible with ETS 5 and ETS 6).

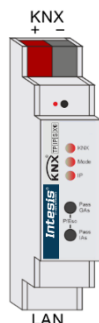
Connect the router to your PC using the Ethernet port.

Mounting

Mount the router in a DIN rail, preferably inside a grounded metallic cabinet.

Width: 1 unit (18 mm / 0.7").

Wiring



- ⚠ Disconnect all systems from power before wiring the router.

1. Connect the KNX TP bus to the router's standard KNX connector located on the top side.

- ⚠ Observe polarity.

2. Connect the KNX IP backbone to the router's Ethernet port located on the lower side.

LED indicators

• KNX bus LED

Color	Pattern	Description
Green	Solid	The router is powered
	Flickering	Telegram traffic on the KNX bus
Red	Shortly	Communication failures

• IP LED

Color	Pattern	Description
Green	Solid	The router has an active Ethernet link and valid IP settings
	Flickering	IP telegram traffic
Red	Solid	The router has an active Ethernet link and invalid IP settings, or has not yet received the IP settings from a DHCP server

• Mode LED

Color	Pattern	Description
Green	Solid	Standard operation mode
Red	Solid	Programming mode
	Flashing	<ul style="list-style-type: none"> • Programming mode is not active • Manual operation is not active • Loading error, e.g., after an interrupted download
Orange	Flash x1	<ul style="list-style-type: none"> • Programming mode is not active • Manual operation is active • Forwarding IA or GA
	Flash x2	<ul style="list-style-type: none"> • Programming mode is not active • Manual operation is active • Forwarding IA and GA

Technical specifications

Housing	Material: Plastic, type PC Net dimensions (HxWxD): 88 x 16 x 58 mm / 3.5 x 0.7 x 2.3" Protection: IP20
Weight	40 g / 1.4 oz
Mounting	DIN rail (1 unit)
Wiring	Cross-section/gauge per terminal: <ul style="list-style-type: none"> • One core: 0.2 .. 2.5 mm² (24 .. 11 AWG) • Two cores: 0.2 .. 1.5 mm² (24 .. 15 AWG) • Three cores: Not permitted Use solid wires or stranded wires (twisted or with ferrules)
Power supply	Approx. 20 mA Provided through the KNX bus
KNX	1 x Standard KNX connector <ul style="list-style-type: none"> • Up to 8 KNXnet/IP Tunneling connections simultaneously • Extended filter table for main group 0..31 • Memory for 150 telegrams (from IP to KNX) • Max. APDU length: 55
Ethernet port	1 x RJ-45 100BaseT connector Supported internet protocols ARP, ICMP, IGMP, UDP/IP, TCP/IP, DHCP, and Auto IP
Push buttons	2 x addressing 1 x KNX programming
LED indicators	3 x multicolor (KNX, Mode, IP) 1 x KNX programming status
Environmental requirements	Operating temp.: -5 .. +45°C / 23 .. 113°F Storage temp.: -25 .. +70°C / -13 .. 158°F Rel. humidity: 5 .. 93% (non-condensing)

Disposal and recycling



This product contains electronic components and must be properly disposed of according to local laws and regulations.

For further information, refer to: <https://www.intesis.com/weee-regulation>

For further information on the installation, connection, and configuration of this router, refer to the User Manual.