

# Logic Machine

by embedded systems

## Technical Sheet For EIB/KNX IP Router

LMIPR01



The worldwide STANDARD for home and building control

### CHARACTERISTICS

The IP Router can be used as line or backbone coupler. It provides a data connection between the upper KNXnet/IP line (main line or backbone) and the lower TP KNX bus line (sub line). The basic functionality of the IP Router is to couple the Ethernet with one or more KNX-TP lines. The IP Router features a galvanic isolation between the Ethernet and the KNX-TP line(s). Due to its flexibility the IP Router can be used as a line coupler e.g. to connect several KNX TP lines via Ethernet. And it can be used as a backbone coupler to connect several TP areas or different TP installation systems via Ethernet.

The main task of the IP Router is filtering the traffic according to the installation hierarchy. For group oriented communication the traffic is filtered according to the built-in filter tables.

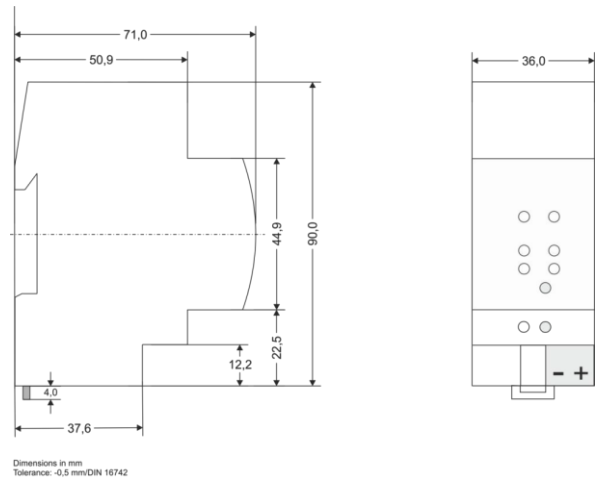
With the ETS or any other KNX compatible commissioning tool the IP Router can be used as the programming interface. For this purpose the device provides up to 4 additional physical addresses that can be used for tunneling.

### PARAMETERS

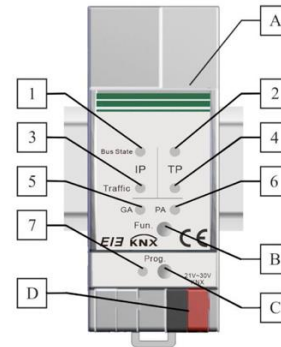
<b>Power</b>	Operation voltage	21-30V DC, via the EIB bus
<b>supply</b>	Current consumption,EIB	<40mA
<b>Connections</b>	KNX/EIB	EIB bus connection terminal
	LAN	RJ45 socket for 100 Mbit and 10 Mbit BaseT, IEEE 802.3 networks
<b>Operation and display</b>	LED Bus State LAN green	LED Bus State LAN red
	LED Bus State KNX green	Function button
	LED Traffic KNX green	LED Traffic KNX red
	LED Traffic LAN green	LED Traffic LAN red
	LED PA green	LED PA yellow
	LED GA green	LED GA red
	Programming button	Programming LED
<b>Temperature</b>	operation	-5 °C ... + 45 °C
	storage	-25 °C ... + 55 °C
	transportation	-25 °C ... + 70 °C
<b>Ambient</b>	Humidity	5~93%, except dewing
<b>Design</b>	Standard 35mm DIN rail installation	
<b>Housing</b>	Plastic PA66 housing grey	

### DIMENSIONS

Model	Dimension	Weight
LMIPR01	36 x 90 x 71 mm	0.1kg



### DESCRIPTIONS



⊕ LED Bus State LAN-- green on: LAN line ok; green off: LAN line error or not connected; red on: manual overwrite active  
 ⊕ LED Bus State KNX-- green on: KNX

line ok; green off: KNX line not connected  
 ⊕ LED Traffic on LAN-- green blinking: bus traffic on LAN line ; green off: no traffic on LAN line, red blinking: transmission error on LAN line.  
 ⊕ LED Traffic on KNX-- green blinking: routed bus traffic from KNX line to LAN; green off: no traffic routed; red blinking: transmission error on KNX line.  
 ⊕ LED GA (Group Address): off: LAN and KNX different; green: filter table active; green and red: route all; red: block  
 ⊕ LED PA (Physical Address): off: LAN and KNX different; green: filter table active; green and yellow: route all; yellow: block  
 ⊕ Programming LED: Red on: device in boot mode or addressing mode ; red blinking: LAN line error.  
 ⊕ Ethernet connector  
 ⊕ Function button: Switch to manual override via long operation (3s)  
 ⊕ Programming button  
 ⊕ KNX-Bus connection

### INSTALLATION FIGURE

The devices are suitable for installation on the distribution boards with 35mm mounting rail which complies with DIN EN 60715 or a small box in order to facilitate quick installation of the device. Must ensure that the device operation, testing, detecting, maintenance correctly.

### IMPORTANT INFORMATION

Installation and commissioning of the device may only be carried out by trained electricians. The relevant standards, directives, regulations and instructions must be observed when planning and implementing the electrical installation.

- Protect the device against moisture, dirt and damage during transport, storage and operation!
- Do not operate the device outside the specified technical data (e.g. temperature range)!
- The device may only be operated in closed enclosures (e.g. distribution boards).

Should the device become soiled, it may be cleaned with a dry cloth. If this does not suffice, a cloth lightly moistened with soap solution may be used. On no account should caustic agents or solvents be used.