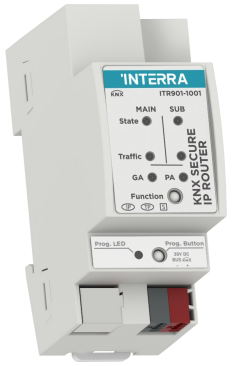
KNX Secure IP Router



Product Code	ITR901-1001
Power Supply	KNX Power Supply
Current Consumption	< 17.5 mA
IP Connection	RJ45 Ethernet Connector
Max APDU Length	240 Bytes
Type of Protection	IP 20
Temperature Range	Operation (-5°C...45°C) Storage (-20°C...60°C)
Maximum Air Humidity	< 93 RH
Color	Light Grey and White
Dimensions	90x36x71 mm (HxWxD)
Certification	KNX Certified
Configuration	Configuration with ETS

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DESCRIPTION

ITR901-1001 is a KNXnet/IP routing & tunneling secure device and works as KNX IP line/area coupler. An external power supply is not necessary. The ability to address all bus devices in the KNX bus system makes network operations less time-consuming. Operational and filtering states, malfunction and faulty communication are indicated by LEDs. UPnP is available and the firmware can be updated by a comfortable Web front-end. Long messages with up to 240 bytes APDU length are supported. For IP Secure Tunneling, four (password-protected) Tunneling channels are available.

ITR901-0001 connects the two communication media Ethernet/ KNX IP and KNX TP to feature (for all bus devices connected):

- Secure commissioning
- Secure tunneling
- Addressing
- Protocol
- Setting parameters
- Diagnostic operations

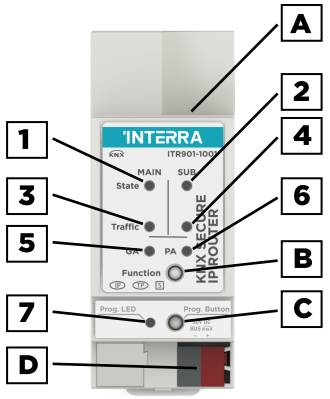
ITR901-1001 is able to filter the traffic according to the installation place in the bus system hierarchy and according to the built-in filter tables for group oriented communication. Configuring from the subline can be blocked. Message filtering can be temporarily deactivated by a single button press. The time period to automatically switch back to normal operation is ETS-configurable. To ease commissioning, temporary access to other lines is possible also without download from the ETS.

MOUNTING, COMMISSIONING AND SAFETY NOTES

- The device may only be installed and put into operation by a qualified electrician or authorized personnel.
- For planning and construction of electric installations the appropriate specifications, guidelines and regulations in force of the respective country have to be complied.
- For mounting only use an appropriate equipment according to IEC60715.
- Installation only in distribution boards and enclosed housings.
- Installation only on a 35 mm DIN rail (TH35).
- Connect the KNX bus line as for common KNX bus connections with a KNX bus cable, to be stripped and plugged into a KNX TP connector.
- Do not damage electrical insulations when connecting.
- Installation only in dry locations.
- Accessibility of the device for operation and visual inspection must be provided.
- For commissioning use the ETS.

CONNECTION DIAGRAM

1. State IP
   - Green: IP OK
   - Red: Manual Function active
2. KNX Bus State
   - Green: Bus OK
3. IP Telegram Traffic
   - Green: Telegram traffic extent
4. KNX Telegram Traffic
   - Green: Telegram traffic extent
   - Red: Transmission error
5. Group Address Routing
   - Green: Filter active
   - Orange: Route all
   - Red: Block all
   - Off: IP/KNX line different
6. Physical Address Routing
   - Green: Filter active
   - Orange: Route all
   - Red: Block all
   - Off: IP/KNX line different



A. Ethernet connector
B. Function button
C. Program button
D. KNX TP connector

7. Programming
   - Red: Program Mode
   - Red blink: No IP connection

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