ITR750-001 - KNX RF EASY MODE MEDIA COUPLER

'INTERRA

Device	ITR750-001
Power Supply	21 ~ 32 V DC
Power Consumption	< X mA
Number of Channels	RF-TP / TP-RF : 16 Channels
TP Group Address	250
TP links	250
Transmission Range	In free field: ~100m, Indoors: ~ 30m
RF Telegram Repetition	2 times
Radio Frequency	868,3 MHz. Compatible with KNX-RF
Communication	Bi-directional
Type of Protection	IP 20, Class III
Temperature Range	Operation (-5°C...45°C) Storage (-15°C...65°C)
Dimensions	38x42x15 mm (HxWxD)
Bus Connection	With Connecting Terminal
Certification	KNX Certified
Configuration	Configuration with ETS

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DESCRIPTION

Interra ITR750-001 is a KNX-RF / KNX-TP media coupler. It is used as bi-directional gateway to ensure communication between KNX RF Radio-frequency devices and the KNX TP Bus. It allows the transmission of telegrams from the radio devices to the KNX-TP communication bus and vice versa. It can be used with devices to control lighting, HVAC, blinds/ shutters and general purpose devices.

FUNCTIONS & CHARACTERISTICS

- ITR750-001 comes with 16 RF or TP independent channels.
- The configuration is done using ETS software.
- ITR750-001 has :

  * **A:** KNX-TP standard connecting terminal.
  * **B (TP prog):** Green/red LED-key for the commissioning by ETS
  * **C:** RF working mode selector switch:
    - ✓ P : Link Programming.
    - ✓ R : Standard operation + Repeater function.
    - ✓ S : Standard operation.
    - ✓ E : Erase one link.
    - ✓ EA : Erase all links.
  * **D:** Channel selector (up to 16 channels : 0, 1, 2, 3, 4, … F).
  * **E (RF Prog):** Green/Red LED-key for learning RF devices.
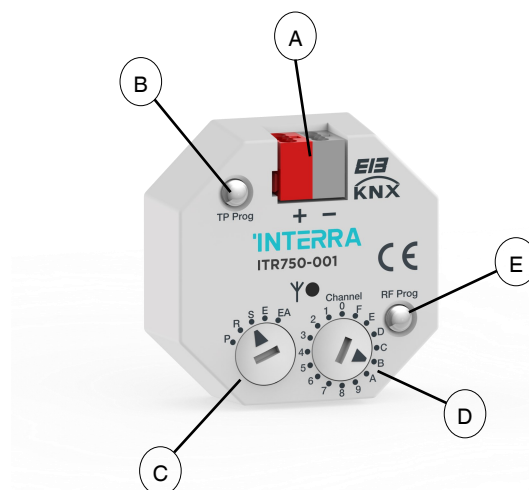
COMMISSIONING

A-) TP Commissioning :

For installation and commissioning of the device, follow these steps:

I) Connect the ITR750-001 media coupler to the KNX Bus.

II) Assign physical address and assign parameters to the application program

III) Press briefly the programming key (B). The green LED will permanently light and the device will be ready to be programmed by ETS. After the programming (30sec) the LED will flicker in red.

IV) Once programmed, the LED will be off.

B-) RF Learning Process:

In order to link the ITR750-001 with a wireless device follow these steps:

I) Set the channel selector (D) at the corresponding position, according to the previously configured by the ETS. Choose the channel in which is going to be programmed the RF device.

II) Place the mode selector switch (C) at 'P' position (link mode).

III) The LED-key (E) will flicker slowly in green.

IV) Press briefly the LED-key (E). It will start flickering quickly in green. At this moment is ready to receive the RF signal from a RF sensor or actuator

V) Follow the instructions for programming the RF sensor or actuator to send its link code.

VI) If the link is successful, the LED-key (E) will be in green permanent during 2 seconds and then it will return to blink slowly in green.

VII) Set the mode switch (C) to 'S' (normal operation) or to 'R' (normal + re-peater). In both modes the LED-key (E) will be in green.

B.1 - Erasing a RF Link (E)

In order to do a partial deletion of a link, the next steps must be followed:

I) Place the mode switch (C) to 'E' (link erasing). The LED-key (E) will be permanently in green.

II) Press briefly the LED-key (E). It will start flickering quickly in green. At this moment is ready to receive the RF signal from a RF sensor or actuator.

III) Follow the instructions for deleting the RF sensor or actuator.

IV) If the deletion is successful, the LED-key (E) will flash five times in red and then it will return to light permanently in green.

B.2 - RF Complete Deletion (EA: Reset)

In order to do a complete deletion, the next steps must be followed:

I) Place the mode switch (C) to 'EA' (Erase All). The LED-key (E) will flicker quickly in green.

II) Press the LED-key (E) for longer than 4 seconds.

III) If the deletion is successful, the LED-key (E) will be 4 seconds in green and then it will flicker quickly.

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