

KNX-DMX GATEWAY



Product Code	ITR831-0101
Power Supply	KNX Power Supply
DMX Side Power Supply	12...24 VDC Power Supply
Current Consumption	4 mA @KNX Bus approx.
	5 mA @DMX side approx.
Cable Cross-section	0.34 ... 2.5 mm ²
Commissioning Mode	S-Mode
Type of Protection	IP 20
Temperature Range	Operation (-5°C...45°C)
	Storage (-25°C...70°C)
Maximum Air Humidity	< 93 RH
Color	Light Grey
Dimensions	98.45 × 18 × 61 mm (H x W x D)
Configuration	Configuration with ETS

DESCRIPTION

The KNX-DMX Gateway ITR831-0101 is a compact interface between KNX and DMX512 lighting systems, enabling bidirectional communication for flexible lighting control.

In master mode, it provides control of DMX luminaires via KNX push-buttons or automation. The device supports up to 64 configurable channels, usable as dimming channels or up to 8 RGB/RGBW groups, with flexible DMX address mapping. 4 integrated sequencers allow advanced lighting scenes and dynamic control.

In slave mode, DMX signals can be converted into KNX telegrams to control KNX actuators. Up to 64 DMX addresses can be interpreted as switching, dimming, or RGB values.

Local operation and status indication are provided via 2 buttons and 3 LEDs.

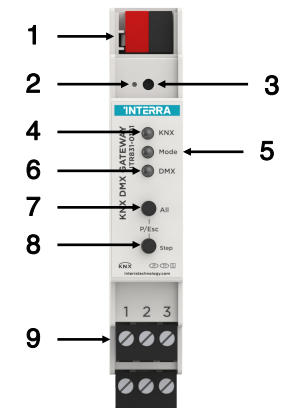
FUNCTIONS

- **Bidirectional Gateway Functionality:** Acts as a compact interface between KNX and DMX512, enabling seamless integration of DMX lighting devices into KNX systems
- **Master or Slave Operation:** The device is versatile, capable of operating as a DMX Master to control lights from KNX, or as a DMX Slave to allow a DMX console to control KNX actuators.
- **Extensive Channel Capacity:** Supports up to 64 freely configurable dimming channels in Master mode or 64 DMX addresses for evaluation in Slave mode.
- **Advanced Color Control:** Provides up to 8 independent RGB/RGBW channels where every individual color and HSV attribute (Hue, Saturation, Value) can be controlled via KNX.
- **Integrated Sequencers and Scenes:** Features 4 internal sequencers for executing complex lighting sequences and allows each channel to be linked to up to 8 independent scenes.
- **Independent Logic and Timer Functions:** Includes 16 high-level functions for logic (AND, OR, etc.) or timer control that can be interconnected to create complex automation structures.
- **Manual Operation and Status Visualization:** Equipped with front-panel buttons for manual switching and dimming of DMX channels, alongside three multicolor LEDs for real-time status display of KNX and DMX communication.

IMPORTANT NOTES

- Installation - Mount the device on a DIN rail of Distribution box.
- Programming - This device is designed for professional KNX installation. It can only be programmed by ETS software.
- Don't connect KNX DC power to other load channels before KNX Bus installation and wiring.
- Auxiliary power supply - An additional DC 24 V power supply should be connected for DMX interface of the module.
- Do not get AC 240 V voltage into Bus wire, it will damage all of devices in system.

LAYOUTS AND WIRING DIAGRAM



- 1 - KNX Bus Connector
- 2 - Programming LED
- 3 - Button Function Programming Mode
- 4 - LED KNX (multicolor)
- 5 - LED Mode (multicolor)
- 6 - LED DMX (multicolor)
- 7 - Button All
- 8 - Button Step
- 9 - Pluggable Screw Terminals