

## ITR832-001 - ITR832-002 - KNX-DALI GATEWAY



Device	ITR832-001	ITR832-002
DALI Line Output	1x64, Single Channel	2x64, Dual Channel
Max. ECG Devices	Up to 64 devices (1x64)	Up to 128 devices (2x64)
Display	2x16 LCD Display	2x16 LCD Display
Short-Circuit & Overvoltage Proof	Available	Available
Power Supply	100-240 VAC	100-240 VAC
Power Consumption	6 W	13 W
DALI Line Current Con.	1x250 mA	2x250 mA
DALI Voltage	Typical 19V DC(12...20.5)	Typical 19V DC(12...20.5)
Network	1xEthernet, 1xKNX and 1xUSB Port	1xEthernet, 1xKNX and 1xUSB Port
Type of Protection	IP 20	IP 20
Temperature Range	Operation (-5°C...45°C)	Operation (-5°C...45°C)
	Storage (-25°C...55°C)	Storage (-25°C...55°C)
Max. Air Humidity	< 90 RH	< 90 RH
Flammability	Non-flammable Product	Non-flammable Product
Color	Light Grey and White	Light Grey and White
Dimensions	90x70x64.5 (HxWxD)	90x70x64.5 (HxWxD)
Certification	KNX Certified	KNX Certified
Configuration	Configuration with ETS	Configuration with ETS

### DESCRIPTION

The ITR832-001 & ITR832-002 single and dual channel KNX-DALI interface devices are used to provide interface between DALI and KNX installations, enabling communication between the two protocols. DALI devices (ballasts, etc. ECGs) connected to the line are supplied with the internal DALI power supply. With the ITR832-001 single-channel device up to 1x64 DALI ballasts can be connected, with the ITR832-002 dual-channel device up to 2x64 DALI ballasts can be connected. With each DALI channel, 16 groups, 16 scenarios and 64 devices can be controlled. In addition, independent emergency lighting according to EN 62386-202 will be supported with the 2nd version update. Emergency lighting tests (eg function and time test) can be triggered via the KNX line. In addition, feedback on the KNX line can be sent. Each DALI device can be controlled by individually, group or broadcast control.

### GENERAL FUNCTIONS

- Automatic DALI Device Addressing.
- Switching, Dimming and Brightness configure.
- Scene configure.
- KNX Bus Voltage Failure Status.
- KNX Voltage Recovery Status.
- DALI Bus Voltage Failure Status.
- DALI Voltage Recovery Status.
- Ballast and / or Lighting Error.
- Working log analysis with UDP.
- Broadcast control can be made with manually and software.
- Tunable White colour temperature control.
- RGB and RGBW colour control.
- Presence Sensor can be connected on DALI line (\*).
- Pushbutton switch can be connected on DALI line (\*).
- Daylight Sensor can be connected on DALI line (\*).

\* : Features will be added in second version of the device.

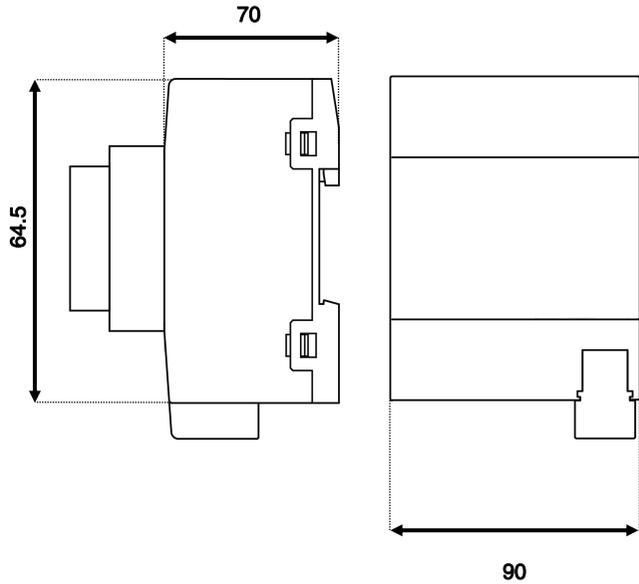
### COMMISSIONING FUNCTIONS

- Addressing operations can be done via ETS or manual buttons as short address assignment.
- Assigning group addresses to ballasts via ETS without need additional software.
- Faulty ballast detection.
- Faulty lighting detection.
- Commissioning and control via embedded web server (\*).
- DALI line device selection with manual button.
- Remote software update via Ethernet connection.
- Emergency lighting test (according to EN 62386-202 standard) (\*).

### SAFETY PRECAUTIONS & IMPORTANT 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.
- Special Programming: This device is designed for professional KNX and DALI installation. It can be programmed by ETS and Web Browser.
- Cable Connections: Ensure making correct connections for Black and Red wires.
- Input Voltage: The input voltage shall be 100-240 VAC.
- Installation only in dry locations and on a 35 mm DIN rail (TH 35).
- For mounting only use an appropriate equipment according to IEC 60715.
- Rain, liquid and aggressive gas should not allowed to be close to device.
- Screw down strength is less than 0.4Nm.
- Do not get AC 240 V voltage into Bus lines, it can damage all of devices in system.

## DIMENSIONS



- All values given in the device dimensions are in millimeters.
- The device can be used in an area of up to 4 modules.

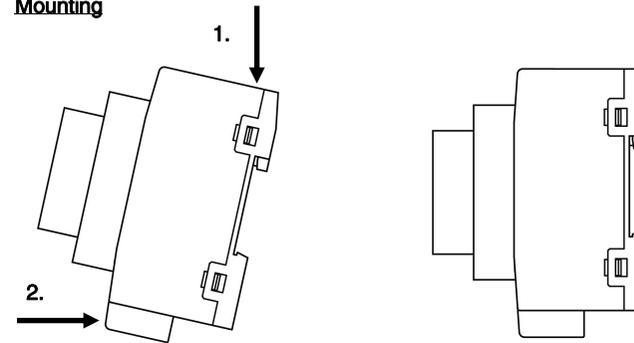
## MARKS

**CE** : Interra KNX-DALI Gateway complies with Electromagnetic Compatibility Directive (2014/30/EU), Low Voltage Directive (2014/35/EU) and Restricting the Use of Hazardous Substances Directive (2011/65/EU).



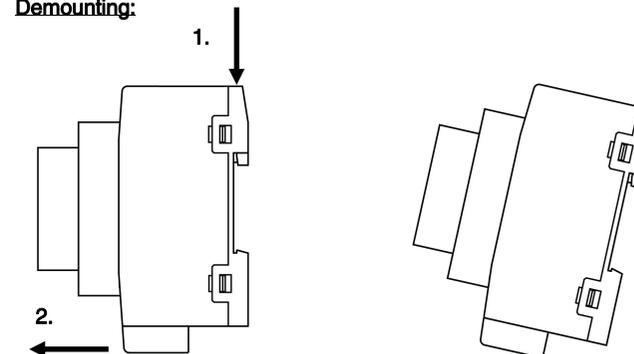
## MOUNTING & DEMOUNTING PROCESSES

### Mounting



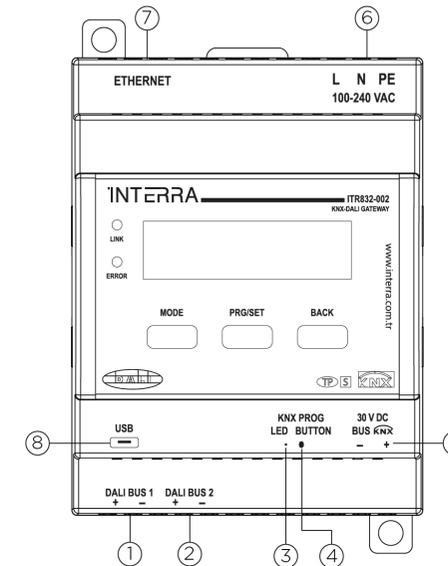
- First, the device is contacted to the DIN rail by holding it at an oblique angle.
- Then, it is pushed slightly from above in the direction of 1st numbered arrow.
- Finally, the device is pushed slightly in the direction of 2nd arrow and placed on the DIN rail to finish the mounting.

### Demounting:

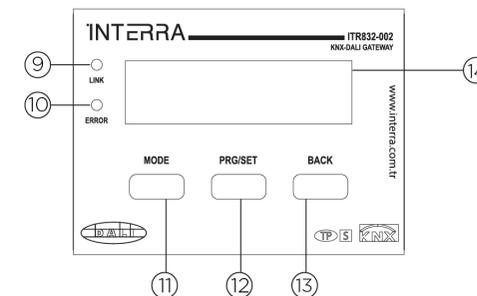


- First, the device is pushed slightly from above in the direction of 1st numbered arrow.
- Then, the device is pulled slightly in the direction of 2nd arrow.
- Finally, when the device is at a sufficient oblique angle, it is completely withdrawn from the DIN rail and the demounting is finished.

## FEATURES OF CONNECTORS & BUTTONS

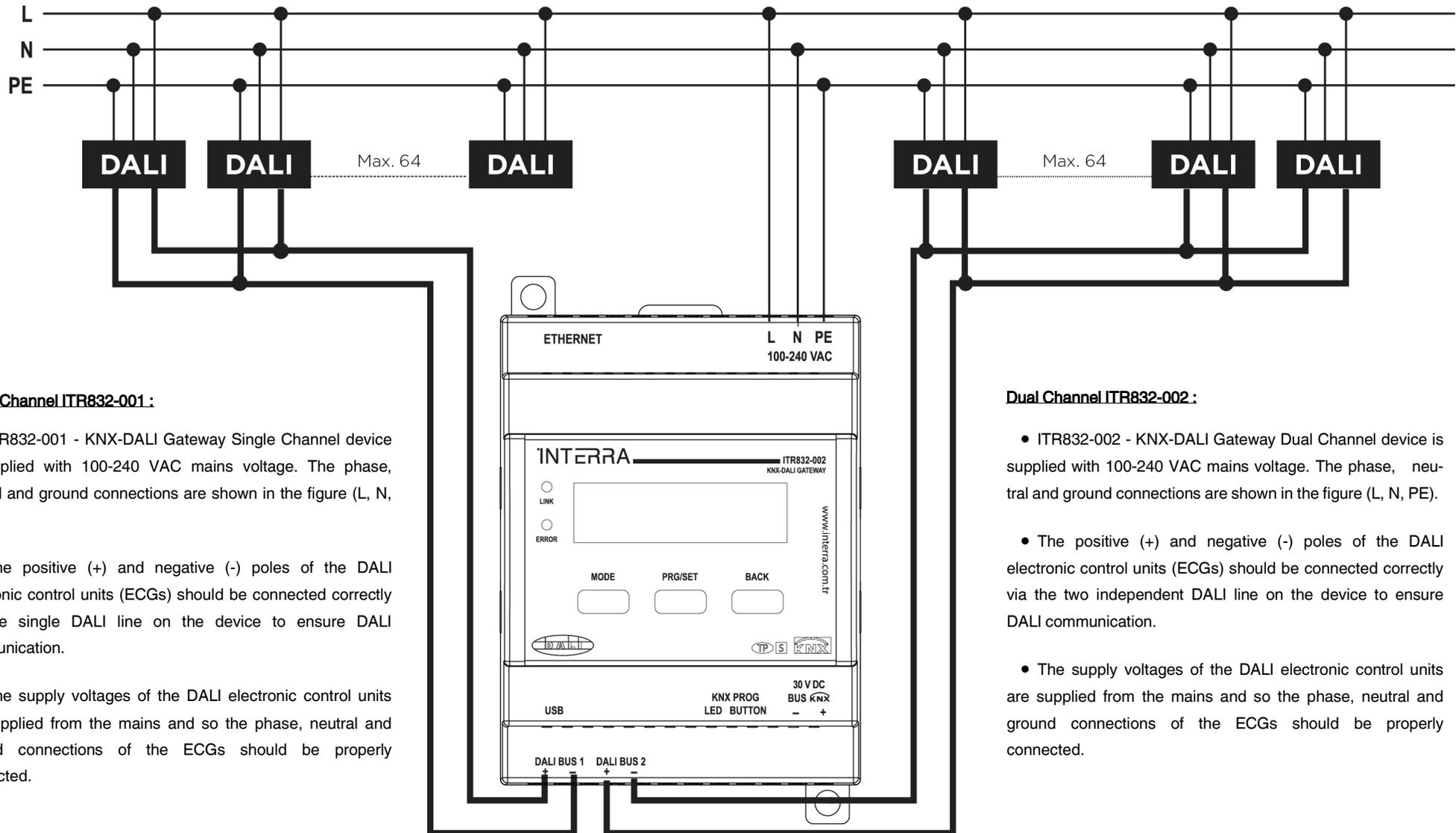


1. DALI Bus Channel 1
2. DALI Bus Channel 2
3. KNX Programming LED
4. KNX Programming Button
5. KNX Connector
6. Power Input
7. Ethernet
8. USB



9. Ethernet LED
10. Error Status LED
11. Menu Mode Button
12. Menu Setting Button
13. Menu Back Button
14. USB

## DEVICE CONNECTION DIAGRAM



### Single Channel ITR832-001 :

- ITR832-001 - KNX-DALI Gateway Single Channel device is supplied with 100-240 VAC mains voltage. The phase, neutral and ground connections are shown in the figure (L, N, PE).
- The positive (+) and negative (-) poles of the DALI electronic control units (ECGs) should be connected correctly via the single DALI line on the device to ensure DALI communication.
- The supply voltages of the DALI electronic control units are supplied from the mains and so the phase, neutral and ground connections of the ECGs should be properly connected.

### Dual Channel ITR832-002 :

- ITR832-002 - KNX-DALI Gateway Dual Channel device is supplied with 100-240 VAC mains voltage. The phase, neutral and ground connections are shown in the figure (L, N, PE).
- The positive (+) and negative (-) poles of the DALI electronic control units (ECGs) should be connected correctly via the two independent DALI line on the device to ensure DALI communication.
- The supply voltages of the DALI electronic control units are supplied from the mains and so the phase, neutral and ground connections of the ECGs should be properly connected.