

General description

The GW632220 gateway is a device used for control interface between the LG HVAC own protocol and KNX devices.

The integration of the LG air conditioning systems with the KNX system is done by a simply direct connection to the RS485 bus of LG outdoor units. The gateway allows to control a HVAC system with up to 64 indoor units connected to 1 outdoor unit.

For each indoor unit individually, the gateway allows to control the most common functions like set point temperature, measured temperature, working mode (cool, heat, fan, dry and automatic mode) and fan speed (low, medium and high).

Characteristics

Control up to 64 indoor units connected to 1 outdoor unit.

Full functionalities for each unit: set point, measuring, working mode, fan mode and failure feedbacks.

Compatible LG systems: in some cases the integration requires the installation of an additional card in the outdoor units of the LG system, the type of the additional card depends on the line of indoor units used in each case:

HVAC system	Adapter
Multi V plus Multi V sync Multi V space	PMNFP14A0 (16 indoor units) or PMNFP14A1 (64 indoor units).
Single A, Multi	PMNFP14A0
Eco-V	PHNFP14A0
Multi V plus II Multi V sync II Multi V space II Multi V mini	No additional card required

Technical information

Main power supply: 12/32 VAC.

KNX Supply: 29VDC from KNX BUS.

Current Consumption: 5 mA from KNX BUS. Equivalent to 1 BUS device *

Connections:

- BUS connection terminal KNX.
- Screw terminals for main power supply and LG bus.

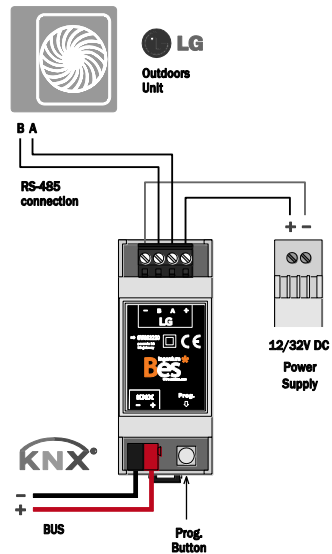
Mounting / size: DIN Rail / 2 modules.

Environment temperature range: Operation: from -10°C to 55°C / Storage: from -30°C to 60°C / Transportation: from -30°C to 60°C

Regulation: According to the directives of electromagnetic compatibility and low voltage. EN 50090-2-2/UNE-EN 61000-6-3:2007/UNE-EN 61000-6-1:2007/UNE-EN 61010-1

*1 BUS device = 5 mA

Installation



Remarks

Feed low voltage lines (KNX bus and inputs) in separate ducting to that of power (230V) and outputs to ensure there is enough insulation and avoid interferences.

Do not connect the main voltages (230V) or any other external voltages to any point of the KNX bus or inputs.

QR-Code

