

WRKT27005NC KNX DAIKIN VRV GATEWAY

WRKT27005NC



Installation should only be carried out by a technical personnel having certificate of competency.

Panasonic®

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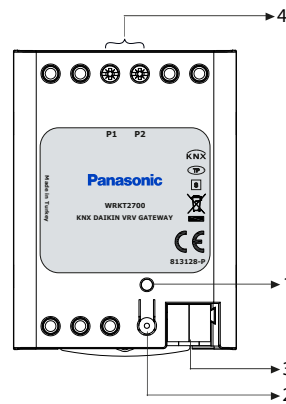
General Information

Daikin VRV Gateway is used for monitoring and complete control of Daikin air conditioners from KNX bus. Daikin VRV gateway is compatible with all DAIKIN SKY Air and VRV models. Daikin VRV Gateway provides directional communication between KNX bus and P1/P2 bus. It can be used master controller instead of Daikin remote controller. Thanks to this VRV Gateway Daikin air conditioners can be controlled by central home automation systems.

Main Features

- Direct connection to P1/P2 bus, the bus that connects the AC indoor unit and the wired remote controller. P1 / P2 bus length can be made up to 500 meters.
- Multiple objects for control and status (bit, byte, characters, etc.) with KNX standard data point types.
- Energy saving functions (Window, Card holder, Presence)
- AC unit can be controlled simultaneously by the remote controller of the AC unit and by KNX.
- Control of the AC unit based in the ambient temperature read by the own AC unit, or in the ambient temperature read by any KNX thermostat.
- Total Control and Monitoring of the AC unit from KNX, including monitoring of AC unit's state of internal variables, running hours counter (for filter maintenance control), error indication and error code.
- Up to 4 scenes can be saved and executed from KNX, the desired combination of Operation Mode, Set Temperature, Fan Speed, Vane Position and Remote Controller Lock can be fixed in any moment by using a simple switching with the KNX bus telegram.
- DIN rail hanger
- Power supply via KNX bus (Works without external power supply)

Product Components



- 1- KNX Programming LED
- 2- KNX Programming Button
- 3- KNX Connector
- 4- P1 / P2 Terminals

Technical Information

Power	
Operating voltage	DC 21-32V (from KNX bus)
Current consumption	Max. 10mA from KNX Bus
Buttons / LEDs	
Push Buttons	1 x KNX Programming Button
LED Indicators	1 x KNX Programming LED
Environmental Conditions	
Ambient temperature	-5 °C ... +45° C
Storage temperature	-10 °C ... +55 °C
Ambient humidity	5...93% (non-condensing)
Housing	
Dimensions (HxWxD)	80.6x60x32.3 (mm)
KNX bus connection	KNX connector (243-211 Wago)
P1/P2 bus connection	2 x Screw Terminals
Electrical Safety	
Protection type (IEC60529)	IP 20
Pollution degree (IEC60664)	2
Protection class (IEC61140)	II
Overvoltage category (IEC60664)	III
Standards	
EMC	EN 63044-5-1, EN 63044-5-2, EN 63044-5-3
LVD	EN 63044-1 ve EN 63044-3
KNX	EN 50090

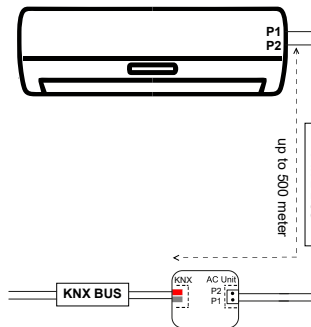
Note: The device is unloaded in factory default. User can define the device behaviour and connect to another KNX devices by ETS. Please refer to the Reference Manual for the description of the features, parameters, objects and configurations.

Installation

Daikin VRV Gateway can be installed inside the AC indoor unit or a proper location away from the AC. It connects to the one side directly to the P1/P2 connector of the air conditioner indoor unit and on the other side directly to the KNX bus. It can be installed with or without RC, installation types described below. It has 2 different working mode; slave and master. It can be used with or without Daikin remote controller (RC).

Daikin VRV Gateway without DAIKIN Remote Controller

Daikin VRV Gateway can be connected directly to P1/P2 bus of the AC without Daikin RC. In this situation it must be configured as master with ETS software.

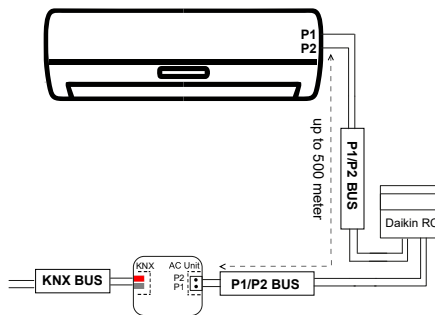


Daikin VRV Gateway with DAIKIN Remote Controller

There is a 2 configuration for using Daikin VRV Gateway with Daikin RC. Daikin RC's working mode can change by the selection switch which is at the backside of RC.

Configuration 1: Daikin remote controller master and Daikin VRV Gateway slave. Select slave mode (S) by the selection switch at RC than configure the Daikin VRV Gateway as slave with ETS software.

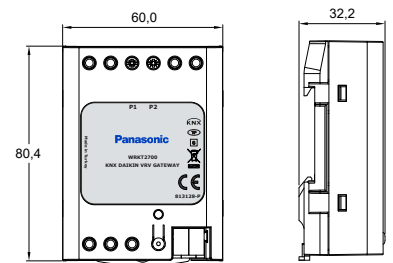
Configuration 2: Daikin remote controller slave and Daikin VRV Gateway master. Select master mode (M) by the selection switch at RC than configure the Daikin VRV Gateway as master with ETS software.



Connecting Daikin VRV Gateway to the AC

- Configure working mode (Master or Slave) at Daikin VRV Gateway with ETS.
- Disconnect air conditioner from the mains power.
- Select working mode by mode selection switch at Daikin RC (if there is).
- Connect Daikin VRV Gateway to the KNX and P1/P2 bus.
- Connect Daikin RC to the P1/P2 bus (if there is).
- Connect air conditioner to the mains power.

Dimensions



Warning

- Ensure that the power is cut off before the assembly of the products.
- Connection and assembly of the electrical devices should be carried out only by the technical personnel having certificate of competency.
- No responsibility is assumed for the entire of the malfunction, accident and loss arising from the assembly or interference of the persons not having the competency certificate.
- Use dry or slightly damp cloth to clean the buttons, cover and frame of the product. Never use alcohol, cologne, detergent or other similar chemicals for cleaning. Do not perform wet cleaning do not contact the product with water when the product is energized.
- In case the surface to which the product is connected is dyed, store the product by removing its cover and the frames.
- Keep the product away from the damp or wet environment during the transportation and shipping.
- It is intended for indoor use only.
- When the product is to no longer be used, it must not be left in place and it must be removed.

Service and Guarantee

- Warranty period starts as of the delivery date of the product and it is 2 years.
- Warranty covers the malfunctions likely to occur due to the manufacturing defects of the product and within the warranty period.
- The product including all of its parts is under warranty as a whole. If the product turns out to be defective, the consumer can use one of the following rights stipulated in Article 11 of Consumer Protection Law no. 6502:
 - a- Withdrawal from the contract
 - b- Demanding discount from sales fee
 - c- Demanding free repair,
 - d- Demanding the replacement of the sold one with a fungible one free from defects.
- In case the consumer chooses the right of free repair among those rights; the dealer is obliged to repair the product or have the product repaired without claiming any fee under the name of replaced part fee, labor cost or for any other reasons. The consumer can also use the right of free repair against the manufacturer or exporter. The dealer, manufacturer and exporter are jointly and severally liable for the usage of this right by the consumer.
- In case the consumer uses the right of free repair and if the product fails within the warranty period again and - the maximum period required for the repair is exceeded and - Authorized service station, dealer, manufacturer or exporter state that it's not possible to repair the product in a report, the consumer can demand the return of the product fee, fee discount at the ratio of the defect or the replacement with the one free of defects, if possible, from the dealer. The dealer can not reject the demand of the consumer. In case this demand is not met, the dealer, manufacturer and exporter shall jointly and severally be held responsible.
- The repair period of the product can not exceed 20 business days. This period starts on the notification of the failure on the product to the authorized service station or the dealer within the warranty period and from the date of delivery of the product to the authorized service station out of warranty period. In case of not eliminating the product malfunction within 10 business days, manufacturer or importer is obliged to dedicate another product with similar characteristics to the use of the consumer until the completion of the product repair. In case the product fails within the warranty period, elapsed time is added to the warranty period.
- Usage of the product contrary to the rules stipulated in user's manual, operating out of determined voltage, current and environmental conditions, damage on the cable connection due to the user's fault and failure of the product due to the facts arising from the fire, flood, earthquake, lightning and similar disasters are not under warranty.
- The consumer can apply to the arbitration committee for consumers or the consumer court where the consumer operations are made or in the residential area for the disputes to be occurred regarding the usage of the rights arising from the warranty.
- In case the dealer doesn't provide this certificate of warranty, the consumer can apply to the General Directorate of Consumer Protection and Market Surveillance of Ministry of Customs and Trade.