



WRKT4824J5NC KNX SECURE MIX ACTUATOR 24CH MX324-16A-S
 WRKT4820J5NC KNX SECURE MIX ACTUATOR 20CH MX320-16A-S
 WRKT4816J5NC KNX SECURE MIX ACTUATOR 16CH MX316-16A-S
 WRKT4812J5NC KNX SECURE MIX ACTUATOR 12CH MX312-16A-S
 WRKT4808J5NC KNX SECURE MIX ACTUATOR 8CH MX308-16A-S

WRKT4824J5NC
 WRKT4820J5NC
 WRKT4816J5NC
 WRKT4812J5NC
 WRKT4808J5NC



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

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General Information

Panasonic Mix Actuator is an output device designed to the automation requirements of residential and commercial KNX projects. It comes with KNX Data Secure feature which assures secure data communication on twisted pair bus line for compatible devices. Panasonic Mix Actuator Module has competent control features such as Lighting, Heating, Shutter and Fan Coil. The current status of the output signals can be visualized on the device with its status LEDs. Signals can be manually overridden using the device's manual control button. Many complex configurations and various scenarios can be realized, thanks to the powerful auxiliary functions (i.e. logic, converter and sequence functions, etc.).

Main Features

- KNX Data Security
- Manual Control
- Switching (Lighting / Heating)
- Shutter / Blind Control (AC / DC)
- Fan Coil (2 pipe / 4 pipe)
- Auxiliary Functions (Sequencer, Counter, Scene Actuator, Filter, Converter, Logic Gate, Presence Detector Controller, Staircase Controller)

Product Components

- 1- 16-A Outputs, 2- Status LEDs, 3- Manual Operation Buttons, 4- KNX Programming Button and LED, 5- KNX Bus Terminal

Technical Data

Power	
Operating Voltage	DC 21-32 V (from KNX bus)
Current Consumption	Max. 40mA

Environmental Conditions	
Ambient temperature	-5 C ... +45 °C
Storage temperature	-10 C ... +55 °C
Ambient humidity	5 ... 93% (non-condensing)

Housing	
Dimensions (HxWxD)	90mmx143,8mmx65,8mm
Mounting (IEC60715)	35 mm top-hat rail (TH35)
Mounting width	DIN rail 144mm (8 modules)
KNX bus connection	KNX connector (243-211 Wago)
Connection type	Screw terminal Single wire: 1,5mm ² - 4mm ² or 2x1,5mm ² - 2x2,5mm ² Stranded wire without ferrule: 0,75mm ² - 4mm ² Stranded wire without ferrule: 0,5mm ² - 2,5mm ²
Weight	8 Channels - 420gr 12 Channels - 495gr 16 Channels - 570gr 20 Channels - 645gr 24 Channels - 720gr

Current Load Rating Per Device	
WRKT4808J-	Sum of C1..C8 maximum 80A
WRKT4812J-	Sum of C1..C12 maximum 120A
WRKT4816J-	Sum of C1..C16 maximum 160A
WRKT4820J-	Sum of C1..C20 maximum 200A
WRKT4824J-	Sum of C1..C24 maximum 240A
Overall load current rating of neighbouring outputs	Max 20A I max. 20A I max. 20A I max. 20A C1 C2 C3 ... Cn

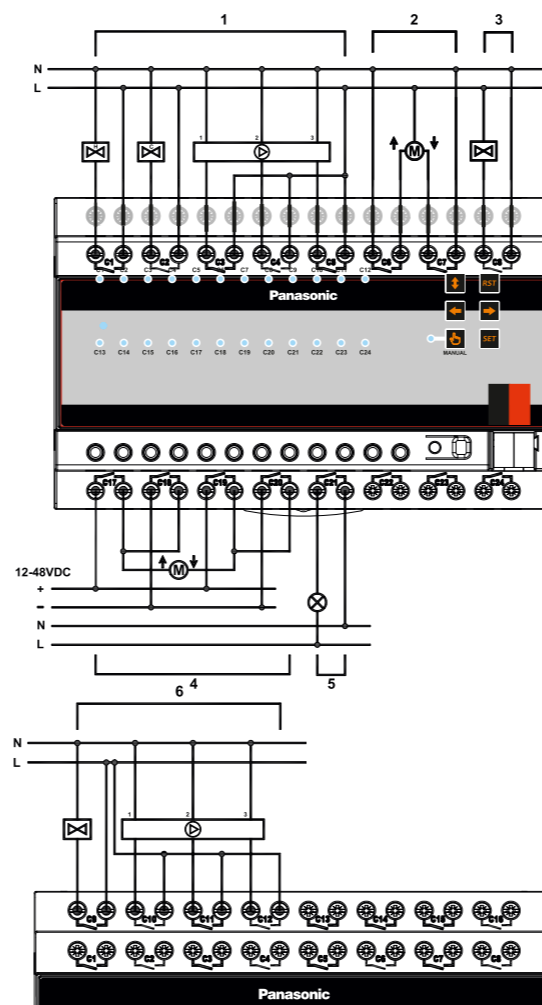
Output (Rated Values)	
24 x 16A (NO) Relay Contact	Potential-free closing contacts, µ contact 230VAC 50/60Hz 10AX 250VAC 50/60Hz 16A AC1 (IEC 60947-4-1) Tungsten 2400W 230VAC LED 250W 230VAC max. 20ms (incand. lamps) 165A peak max 200µs 800A peak

Electrical safety	
Protection type (IEC60529)	IP 20
Pollution degree (IEC60664)	2
Protection class (IEC61140)	II
Overvoltage category (IEC60664)	III

CE Marking / Standard	
EMC	EN 60669-2-1
LVD	EN 60669-2-1
KNX	EN 50090

Connections

Dry Contact Connection



1- Fan Coil (Heating and Cooling)

4 Pipe uses 5 output channels. Channel 1 to Channel 5 are used for fan coil. Channel 1 uses for heating, Channel 2 uses for cooling, Channel 3, Channel 4 and Channel 5 uses for fan steps.

2- Shutter/Blind

Channel 6 and Channel 7 are used for shutter/blind connection.

3- Heating

Channel 8 is used for heating function.

NOTE: For the outputs use circuit breakers for the respective rated current.

4- Shutter/Blind DC

4 output channels are used. Channel 9 to Channel 12 are used for shutter/blind DC connection.

*To avoid short circuit, make sure that the ETS configuration of the channels which connected to the DC motor are done correctly.

*Fuse or short circuit protection should be used with DC power supply.

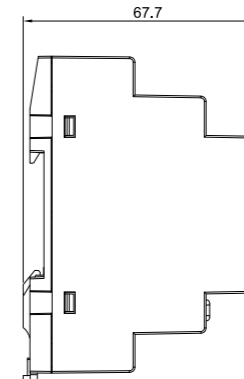
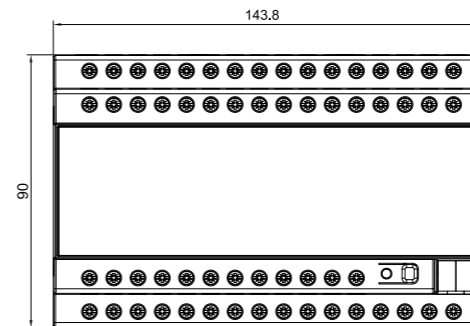
5. Switching

Channel 13 is used for switching - lighting function.

6. Fan Coil (Heating and Cooling)

2 Pipe uses 4 output channels. Channel 1 to Channel 4 are used for fan coil. Channel 1 uses for heating or cooling, Channel 2, Channel 3 and Channel 3 uses for fan step.

Dimensions



Device Behavior

Factory Default

In the delivery state, device can be checked with testing software. Manual control is enabled.

Test software will work as follows;

- 1- Control can be started by pressing Manual button.
- 2- Select the output you want to control with navigation buttons.
- 3- The selected output is turned on or off with SET and RST buttons.

* KNX socket must be installed.

** Only one output can be controlled in each selection.

After ETS Programming

User can define the device behavior and connect it to other KNX devices after programming the device by ETS. The behavior of the device after programming with the ETS depends on the configuration. The description of the features, parameters and objects is in the device reference manual.

Manual Control

Manual control is available. To enter the manual control mode, press button. An output's LED will start to indicate that the manual control is operated on that input. Press SET or RST buttons to simulate setting or resetting an output signal. Press button to exit the manual control mode.

KNX Secure

KNX Secure, protects KNX devices against unwanted access and manipulation. A device with the KNX Secure feature transmits telegrams sent to the KNX bus line in a secure and encrypted manner.

Panasonic

Model No: WRKTxxxx
 ACFQAA-AAAAIB
 GESKCO-DBYZTA
 JZHD2T-ZVMEAT
 Serial No: 008B00000000



Two removable labels with a device certificate come with the product. One of the labels is on the product and the other is inside the box. Installation of the product can be done via ETS using the device certificate.

Keep the removable labels with the device certificate in a safe place.

NOTES

- Protect the device by using a circuit breaker at the declared current values at the relay outputs.
- Do not disassemble, repair or modify this device.
- For mounting use an appropriate equipment according to IEC60715.
- Installation only on a 35 mm DIN rail (TH35).
- Installation only in distribution boards and enclosed housings.
- When the product is to no longer be used, it must not be left in place and it must be removed.

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.
- Protect the switch contacts with a series-connected miniature circuit-breaker of characteristic B for a max. rated current of 16A.

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".