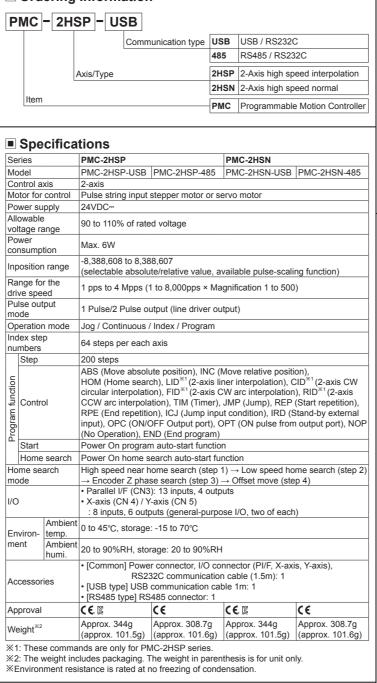
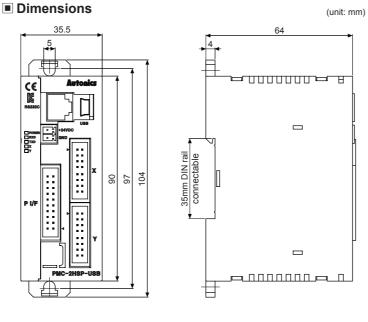
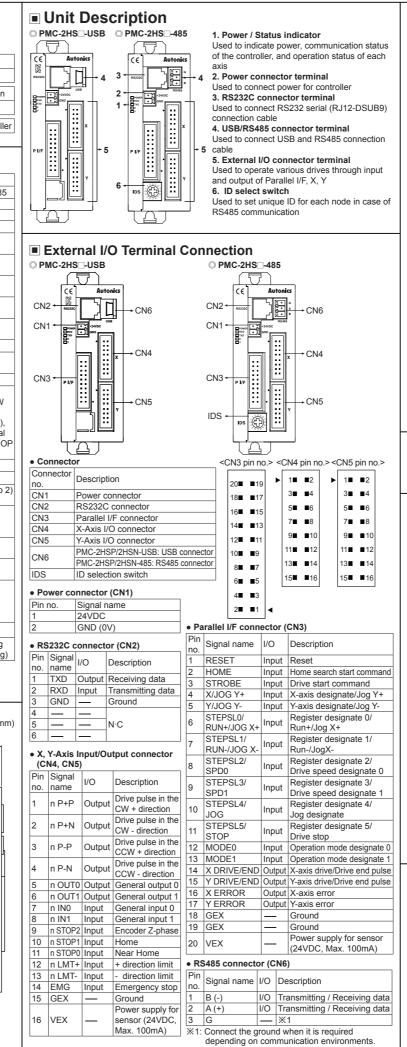
Ordering Information Autonics Programmable Motion Controller PMC-2HSP/PMC-2HSN SERIES INSTRUCTION MANUAL **(E)** Thank you for choosing our Autonics product. Please read the following safety considerations before use. Safety Considerations *Please observe all safety considerations for safe and proper product operation to avoid hazards. XSafety considerations are categorized as follows. mode Marning Failure to follow these instructions may result in serious injury or death. ▲Caution Failure to follow these instructions may result in personal injury or product damage. %The symbols used on the product and instruction manual represent the following. ▲ symbol represents caution due to special circumstances in which hazards may occur. ▲ Warning 1. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.) Failure to follow this instruction may result in personal injury, fire, or economic loss. 2. Please read and fully understand this user manual prior to operating the unit. Non-compliance may cause mechanical loss, injury or malfunction due to wrong operation. 3. Do not use the unit where flammable or explosive gas, corrosive material, water, combustible material, or direct ray of the light are likely to exist. Failure to follow this instruction may result in fire or burn. Limit switches and emergency stop switches should be installed where dangerous I/O accident-prone environments. Failure to follow this instruction may result in personal injury, or economic loss. 5. Install the controller after considering counter plan against power failure. Failure to follow this instruction may result in personal injury or product damage by releasing ment holding torque of motor. 6. Keep any impurities from entering into ventilation window. Failure to follow this instruction may result in fire. 7. Confirm that power cables and signal cables are firmly fixed. Failure to follow this instruction may result in fire. 8. Check whether the connection is correct, based on the connection diagram before supplying the power to the driver. Failure to follow this instruction may result in fire or controller damage 9. Disconnect all power sources for installation, connection, inspection, or maintenance work. Failure to follow this instruction may result in product damage. 10. Do not cut off power or disconnect connectors while operating the unit. Failure to follow this instruction may result in personal injury, or economic loss. 11. Do not disassemble or modify the unit. Please contact us if necessary. Failure to follow this instruction may result in fire or product damage ▲ Caution 1. Use rectified power supply via insulation transformer for the input power. Failure to follow this instruction may result in product damage. 2. Tighten the volts for power connectors and RS485 connectors with max. 0.4N m torque The excessive power may cause the poor contact. 3. Power input voltage for this controller must be used within the rated specification and power line should be over than AWG 28-16. Failure to follow this instruction may result in fire. 4. If a ribbon cable is used as the I/O line, connect the cable correctly and prevent from poor contact. Failure to follow this instruction may result in malfunction. 5. Connect after checking the connector specification and format. Failure to follow this instruction may result in fire or controller damage. 6. Use the unit within the rated specifications. Failure to follow this instruction may result in product damage, performance loss, shortening the life cycle of the unit, personal injury, or ambient equipment damage 7. In wiring, possibly separate cables from the power line, the load line not to be affected by noise. Failure to follow this instruction may result in malfunction or controller damage 8. Do not use water or oil-based detergent when cleaning the unit. Use dry cloth to clean the unit.

- Failure to follow this instruction may result in fire.
- 9. When disposing the unit, please categorize it as industrial waste. 10. Note that this device is KCC certified for commercial use.
- Make proper applications for the product.
- %The above specifications are subject to change and some models may be discontinued without notice. *Be sure to follow cautions written in the instruction manual, user manual and the
- technical descriptions (catalog, homepage)

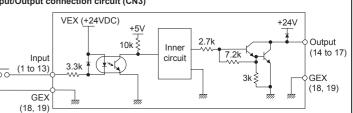




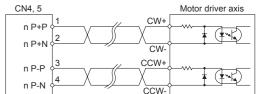


I/O Connection Diagram

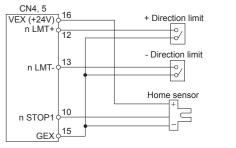
Input/Output connection circuit (CN3)



Example of motor drive connection



Example of limit and home sensor connection



Manual and Software

For the detail information and instructions, please refer to user manual and be sure to follow cautions written in the technical descriptions (catalog, homepage).

Visit our homepage (www.autonics.com) to download manuals and software.

Cautions during Use

1. Caution for operating motion controller

①Set positioning coordinates and parameters before operating the motion controllers. ②Select the proper driving speed with steadily increasing the system speed using Jog or Continuous mode.

3 Select the proper de/acceleration parameters depending on system load.

2. Caution for using ID selection S/W

()Be sure that each unit must have individual ID on the Multi-drop network.

②Because the ID at the initial power-on is set, it is recommended not to change ID Select S/W after power-on. Although ID is changed after power-on, units don't have a changed

3. Caution for Power On function

1 Power On Home Search / Power On Program Start function is set to ON, these

functions will be activated as soon as power is supplied to motion controllers. Make sure that Power On function is set to ON in Motion Studio Program before supplying the power to the unit.

@If Power On function is not necessary, disconnect CN3, 4, 5 connectors and withdraw the setting in Motion Studio Program.

. Caution for wiring

Check your connections first to avoid faulty wiring.

②Keep the distance between power cable and signal cable more than 10cm. ③It is recommended to use twisted pair shield wire when connecting cables to CN3, 4, 5 connectors.

(Ground the shield cables if it necessary depending on installation environments.) ④It is recommended to use the communication cables provided with the product.

(RS232C, USB)

(5) It is recommended to use twisted pair wires (24-AWG) for RS485 cables.

(Refer to user manual for more details.)

5. This product may be used in the following environments.

Temperature/Humidity Transducers

Tachometer/Pulse (Rate) Meters

SSRs/Power Controllers

Counters

Panel Meters

Display Units

Sensor Controllers

Timers

Indoors

②Altitude max. 2000m

③Pollution degree 2

Installation category ||

%Failure to follow these instructions may result in product damage.

Major Products

- Photoelectric Sensors Temperature Controllers
- Fiber Optic Sensors
- Door Sensors Door Side Sensors
- Area Sensors
- Proximity Sensors
- Pressure Sensors
- Rotary Encoders Connector/Sockets

Switching Mode Power Supplies Control Switches/Lamps/Buzzers

I/O Terminal Blocks & Cables

Stepper Motors/Drivers/Motion Controllers

Graphic/Logic Panels

■ Laser Marking System (Fiber, CO₂, Nd: YAG)

Laser Welding/Cutting System

Autonics Corporation http://www.autor

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