

MC402E motion controller

Omron's range of position and motion controllers has been greatly enhanced with the addition of the MC402E. The MC402E has been designed to act as a PLC module and provide multi-axis complex motion control for up to four axes of servo drive.

Because the MC402E acts as a PLC module for the C200H[®] or CS1 PLC families, there is no need to use a separate motion controller. The user gains benefits in terms of reduced wiring complexity, reduced panel space and, perhaps most importantly, the need to write a dedicated handshaking communications routine is eliminated.

Also, by acting as a PLC module, the MC402E and the PLC are able to share

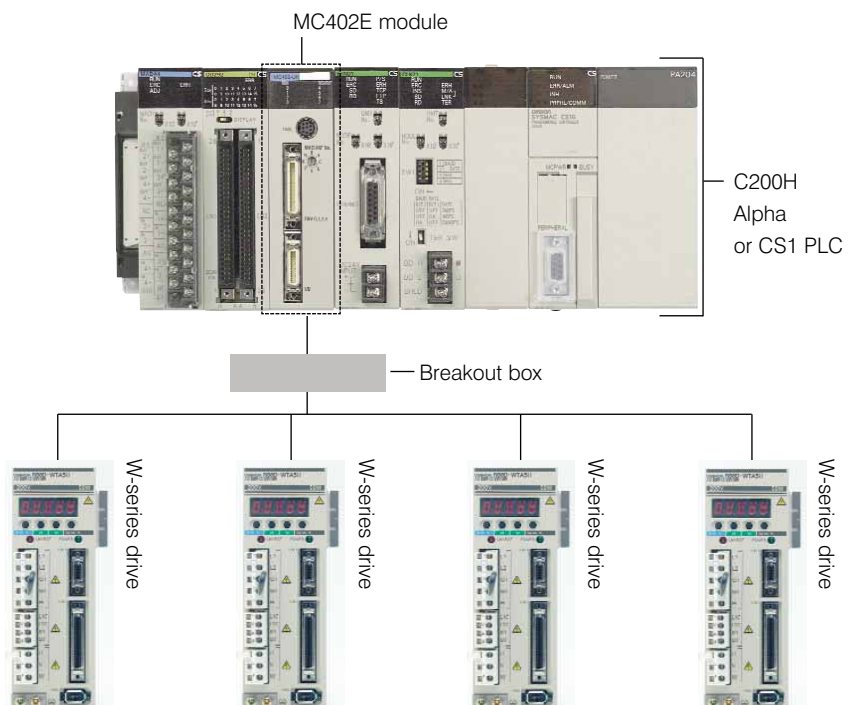
real time information across the backplane, allowing system components to act on this data immediately.

Programming is via a BASIC package. This ensures program complexity is kept to a minimum, and is understood by engineers. Multi-tasking is available, allowing complex programs to be broken down, developed and tested independently, or programs for differing products to be called for automatically.



Potential benefits

- Up to 4 axes per module: with multiple modules per PLC, solutions can be cost effectively tailored to suit the application.
- Breakout boxes are used to simplify wiring and reduce installation time.
- By sitting on the backplane, the motion control aspect becomes part of the system, and can access special I/O, networking and HMI functions.
- Four virtual axes are incorporated in each module, enabling simplified system design by not taking up real axes.



Hardware

The MC402E has 16 in-built 24VDC, opto-isolated inputs, and 8 opto-isolated outputs. These can be used where critical functions such as limits, datums and emergency stops are required to be actioned immediately by the motion controller.

Application examples

The MC402E has been designed to provide an innovative solution to complex motion control applications. These include flow wrappers, form/fill/seal and high-speed labellers, although the functionality makes it an ideal choice for the vast majority of applications. Functionality includes CAM profiles, electronic gearbox and print registration.

Place in range

As well as the MC402E, Omron also provides solutions for point to point applications via the NC and MC ranges. For simpler applications, specific functions are included in the micro to mid PLC ranges. Additionally, Omron markets W-series servo drive and motor combinations.

Ordering information

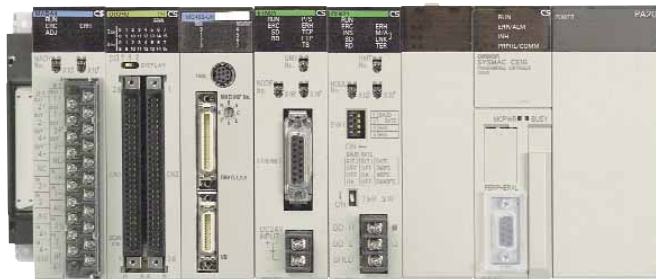
Part number

- C200HW-MC402E
- 60.220.603.S
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Description

- Motion control unit, 4 axes, analogue output
- DIN rail mounting connection kit
- I/O connector kit to terminal block
- Axis connector cable to terminal block

Contact Omron for details of compatible PLC and servo systems.



For further information please contact OMRON on one of the following, or complete and fax back the form.

General telephone enquiries

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Direct e-mail address for sales enquiries

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Please call to discuss the MC402E motion controller

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