

# Step controllers

## Multiple axis controller

# iMC-P



Figure:  
Front and rear  
iMC-P step controller

### Features

- 8 signal inputs (24V DC)
- 8 relay outputs (24V DC, 300 mA) max. 2A total current
- 1 relay output (230V AC/6A)
- 1 analogue output (0 - 10V)
- RS232 programming interface (rear)
- 32-bit RISC processor and memory for user program
- Programming with PAL-PC (DNC and CNC modes), @-format (DNC and CNC modes), ProNC, Remote, Galaad, Labview (DNC mode), various high level languages
- max. 4 final stages (48V/4.2A) for 2-phase step motors (power supply unit 500 W)
- from a step angle of 1.8° up to 25,600 microsteps/turn (1/128 microstep)
- automatic current sink
- motor current adjustable via DIP switch
- additional control signals (start, stop, reset) adaptable
- Safety circuits (emergency shutdown, door circuit controller) via external plugs in higher level safety circuits integrable
- Broadband mains supply: 110 - 250V AC, 50..60 Hz
- Clocking/direction module to order
- Bench casing W 379 × H 137 × D260

### General

**iMC-P** step controllers **iMC-P** are freely programmable compact controllers with max. 4 final stages for 2-phase step motors. The controllers integrate all necessary components (interfaces, motion controllers, power supply, final stages, safety circuit incl. door controller, control elements), which are needed to control a machine, in a compact bench housing. The iMC-P1 controller with core module with at least one integrated final stage enables the control of up to 3 additional final stages with clocking/direction module. The signals needed for this are provided through the appropriate external interfaces.

- **iMC-P1n:** with intelligent core module for control via RS232  
The controller also works either in DNC mode (permanently connected with the computer) or in CNC mode (after transfer of the user program as a standalone controller), e. g. via the accompanying PAL-PC software

### Deliverables

- Controller
- Mating plug (I/O, pulse, remote)
- serial interface lead (null modem)
- 230V AC mains lead
- PAL-PC software CD
- Operating and programming instructions

### Ordering information

|                       |           |                    |                     |
|-----------------------|-----------|--------------------|---------------------|
| 2-axis controller     | iMC-P1-2  | Part no.:          | <b>381403 0002*</b> |
| 3-axis controller     | iMC-P1-3  | Part no.:          | <b>381403 0003*</b> |
| 4-axis controller     | iMC-P1-4  | Part no.:          | <b>381403 0004*</b> |
| USB - RS232 converter | Part no.: | <b>372000 0001</b> |                     |

\* including PAL-PC

### Accessories

|                                       |                                       |                                       |
|---------------------------------------|---------------------------------------|---------------------------------------|
| Motor lead SubD9 plug - SubD9 socket  | Motor lead SubD9 plug - M23 socket    |                                       |
| Part no.: <b>392780 0151</b> (1.50 m) | Part no.: <b>392755 0200</b> (2.00 m) | Part no.: <b>392755 0500</b> (5.00 m) |
| Part no.: <b>392780 0201</b> (2.00 m) | Part no.: <b>392755 0300</b> (3.00 m) | Part no.: <b>392755 0600</b> (6.00 m) |
| Part no.: <b>392780 0301</b> (3.00 m) | Part no.: <b>392755 0400</b> (4.00 m) | Part no.: <b>392755 0800</b> (8.00 m) |
|                                       |                                       | ...other lengths to order.            |

Subject to technical changes.