

# MC6

## STEPPER MOTOR CONTROL DEVICE



### DESCRIPTION

MC6 (Motion Control 6) is a device for controlling up to 6 stepper motors. It can be programmed to fit different specific requirements. Widely used Modbus-TCP communication protocol makes it easy to integrate with existing control systems - eg. PLC controllers, PC software, LabView applications. It can be shipped with standalone interface application or Tango Device Server. The device indicators inform about the transfer status for each axis, e.g. about reached limits or transferring failures.

### APPLICATIONS

The MC6 device is mainly recommended for precision transfer systems, e.g. manipulators, sample transfer systems etc.

### TECHNICAL DATA

Supply voltage	230 VAC, 50/60 Hz (rated power 300 W)
Compatible stepper motors	2 phase bipolar, motor current 1.2 up to 3.8 A/phase. Motor power supply 24V. Default microstepping mode: 1/16 step (3200 steps per motor rotation). Other modes available
Encoder options	Standard quadrature incremental encoder with differential line driver. Default for on-shaft rotary encoder 500CPR. Other options available - eg. load-side encoder
External input signals	2 limit switches inputs for over-travel protection. Reference position signal, for accurate position detection. Enabling signal for interlocking motor movement
Control functions	Programmable target velocity, acceleration, backlash compensation, homing procedure configuration. Other customizable control functions on request
Communication interfaces	MODBUS-TCP (for control), RS485 (for programming/configuration)
Dimensions	483 x 133 x 386 mm (W×H×D), 19" rack mountable (full-width, 3U height)
Weight (approx.)	10 kg



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