

# Stepper motor controller SMC01



The optionally available Spetec stepper motor controller SMC01 is a versatile control board for 2-phase stepper motors with a step angle of 1.8°. It can be operated in two different modes. The signal control mode is intended for use in simple systems, while interface mode is intended for operation at a PC or in a more complex system with its own bus system.

The SMC01 is supplied with the SMC01-Control operating software. This software allows you to query, set, configure and also control some of the parameters of the SMC01. This permits optimum operation of the stepper motor.



Screenshot Software

## Benefits

- Two different operating modes can be set, signal control and command control (via USB adapter or RS485 port)
- SMC01 PC tool for simple configuration and control
- Many settings can be configured from a PC
- Simple sequencing possible at the PC in the case of USB operation
- RS485 port to permit integration in more complex systems with interface control
- On-chip temperature monitoring
- Quieter running thanks to adjustable microsteps up to 1/128
- Board can be operated without ventilation (can be optionally equipped with a fan)
- Compact assembly

## Technical data

Stepper motor controller SMC01 (optional)	
Power supply	24V
Current	1.65A max
Motor emergency stop switch	Yes

Signal control operating mode	
Input for speed	0 – 5V
Corresponds to	typically 0 – 100 rpm
Speed range	0 – max. 200 rpm
Input for enable	TTL
Input for reverse rotation	TTL
Input for high speed	TTL
<b>Comments:</b> The SMC01 can be used with default settings or with a configured customer-specific setting	

Command control operating mode (with separate USB adapter or RS485 port)	
Settings and control	Via commands from PC
Data communication	RS 485 / USB
Digital inputs/outputs	4, TTL level
Load switching	1 (24V, max. 100mA)
Analog inputs	2 channels
Script control	Yes, via SMC01-Control PC tool